157

# MILITARY CONSTRUCTION APPROPRIATIONS FOR 1994

Y 4.AP 6/1:M 59/6/994/
PT.3
Military Construction Appropriation...

HEARINGS

BEFORE A

## SUBCOMMITTEE OF THE

## COMMITTEE ON APPROPRIATIONS

## HOUSE OF REPRESENTATIVES

ONE HUNDRED THIRD CONGRESS

FIRST SESSION

SUBCOMMITTEE ON MILITARY CONSTRUCTION APPROPRIATIONS

**W. G. (BILL) HEFNER, North Carolina, *Chairman***

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WILLIAM A. MARINELLI, HENRY E. MOORE, and MARY C. ARNOLD, *Subcommittee Staff*

**PART 3**

**Justification of the Budget Estimates**

**AIR FORCE**


| | Page |
|---|---|
| **Appropriation Requests for Active Forces:** | |
| **Military Construction** | 1 |
| **Defense Business Operations Fund** | 728 |
| **Family Housing** | 805 |
| **Appropriation Requests for Reserve Components:** | |
| **Air National Guard** | 923 |
| **Air Force Reserve** | 1303 |


Printed for the use of the Committee on Appropriations

MAY 24 1993

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U.S. GOVERNMENT PRINTING OFFICE

66-722 O WASHINGTON : 1993

For sale by the U.S. Government Printing Office
Superintendent of Documents, Congressional Sales Office, Washington, DC 20402
ISBN 0-16-040684-6

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NEW ODD PAGE

DEPARTMENT OF THE AIR FORCE

# FY 1994 BUDGET ESTIMATES

## MILITARY CONSTRUCTION AND FAMILY HOUSING

*JUSTIFICATION DATA SUBMITTED TO CONGRESS APRIL 1993*

# FY 1994 VOLUME 1

INSIDE THE UNITED STATES
OUTSIDE THE UNITED STATES
VARIOUS WORLDWIDE
FAMILY HOUSING

TABLE OF CONTENTS
FY 1994 PRESIDENT'S BUDGET


| | PAGE |
|---|---|
| General: | |
| Table of Contents | A |
| Program Summary | B |
| State List (List of Projects) | C-1 |
| New Mission/Current Mission Exhibit | D |
| Military Construction | |
| Installation Index | E-1 |
| Special Program Considerations | |
| Statements | F-1 |
| Congressional Reporting Requirements | F-2 |
| Third Party Financing | F-3 |
| Non-MILCON Construction | F-4 |
| Research and Development | F-5 |
| Operations and Maintenance | F-8 |
| Budget Data: | |
| Appropriations Language | G-1 |
| Program and Financing Schedule | G-2 |
| Object Classification Schedule | G-4 |
| Projects Inside the United States | 1 |
| Projects Outside the United States | 544 |
| Planning and Design | 577 |
| Unspecified Minor Construction | 579 |
| Defense Access Roads | 581 |
| $One Million and Under | 586 |
| Defense Business Operations Fund (DBOF) | 659 |
| Family Housing | 720 |

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1994

| | PROJECT AUTH | AUTH FOR APPROP | APPROP |
|---|---|---|---|
| **MILITARY CONSTRUCTION** | (SEC 2301) | (SEC 2304) | |
| Inside the United States | 729,152 | 729,152 | 729,152 |
| Defense Access Roads (Whiteman) | 23 USC 210 | 7,150 | 7,150 |
| Maxwell Runway Extension | (1) | (1) | 9,200 |
| Eglin Climatic Test Chamber | (2) | 57,000 | 57,000 |
| Outside the United States | 33,852 | 33,852 | 33,852 |
| Planning and Design | 10 USC 2807 | 63,180 | 63,180 |
| Unspecified Minor Construction | 10 USC 2805 | 6,844 | 6,844 |
| **TOTAL MILITARY CONSTRUCTION** | 736,004 | 897,178 | 906,378 |
| **MILITARY FAMILY HOUSING** | (Sec 2302/2303) | (Sec 2304) | |
| New Construction | 110,264 | 110,264 | 110,264 |
| Improvements | 53,070 | 53,070 | 53,070 |
| Planning and Design | 9,901 | 9,901 | 9,901 |
| Subtotal | 173,235 | 173,235 | 173,235 |
| Operations, Utilities, and Maintenance | | 735,625 | 735,625 |
| Leasing | | 118,260 | 118,260 |
| Debt Payment | | 21 | 21 |
| Subtotal | 173,235 | 853,912 | 853,912 |
| **TOTAL MILITARY FAMILY HOUSING** | 173,235 | 1,027,147 | 1,027,147 |
| **GRAND TOTAL AIR FORCE** | 909,239 | 1,924,325 | 1,933,525 |

(1) Project authorization and authorization for appropriation provided in FY 1993

(2) Project authorization provided in FY 1993

B

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| ALABAMA | | | | | |
| GUNTER ANNEX | | | | | |
| | HAZARDOUS WASTE ACCUMULATION FACILITY | 310 | 310 | 310 | 581 |
| | CHILD DEVELOPMENT CENTER | 2,700 | 2,700 | 2,700 | 1A |
| | EMERGENCY POWER GENERATOR PLANT | 1,200 | 1,200 | 1,200 | 2 |
| | SPILL CONTAINMENT CONTROLS | 470 | 470 | 470 | 583 |
| | GUNTER ANNEX TOTAL: | 4,680 | 4,680 | 4,680 | |
| MAXWELL AFB | | | | | |
| | EXTEND RUNWAY/UPGRADE | 0 | 0 | 9,200 | 6 |
| | TAXIWAY/RAMP | 3,800 | 3,800 | 3,800 | 9 |
| | AIR FORCE QUALITY CENTER | 4,650 | 4,650 | 4,650 | 12 |
| | UNDERGROUND FUEL STORAGE TANKS | 1,700 | 1,700 | 1,700 | 15 |
| | SPILL CONTAINMENT CONTROLS | 970 | 970 | 970 | 585 |
| | UPGRADE UTILITY SYSTEMS, PHASE I | 5,050 | 5,050 | 5,050 | 17 |
| | MAXWELL AFB TOTAL: | 16,170 | 16,170 | 25,370 | |
| | ALABAMA TOTAL: | 20,850 | 20,850 | 30,050 | |
| ALASKA | | | | | |
| CAPE ROMANZOF LRRS | | | | | |
| | REPLACE TRAMWAY SYSTEM | 3,350 | 3,350 | 3,350 | 21 |
| | CAPE ROMANZOF LRRS TOTAL: | 3,350 | 3,350 | 3,350 | |
| EIELSON AFB | | | | | |
| | FIRE TRAINING FACILITY | 2,400 | 2,400 | 2,400 | 25 |
| | CHILD DEVELOPMENT CENTER | 5,400 | 5,400 | 5,400 | 28 |
| | EIELSON AFB TOTAL: | 7,800 | 7,800 | 7,800 | |
| ELMENDORF AFB | | | | | |
| | CORROSION CONTROL FACILITY | 5,975 | 5,975 | 5,975 | 32 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | MUNITIONS MAINTENANCE FACILITY | 2,100 | 2,100 | 2,100 | 35 |
| | MUNITIONS EQUIPMENT FACILITY | 1,860 | 1,860 | 1,860 | 38 |
| | HAZARDOUS WASTE STORAGE FACILITY | 3,900 | 3,900 | 3,900 | 41 |
| | DINING FACILITY | 6,800 | 6,800 | 6,800 | 44 |
| | CHILD DEVELOPMENT CENTER | 5,070 | 5,070 | 5,070 | 47 |
| | ADD TO SANITARY SEWER SYSTEM | 5,100 | 5,100 | 5,100 | 50 |
| | ELMENDORF AFB TOTAL: | 30,805 | 30,805 | 30,805 | |
| | ALASKA TOTAL: | 41,955 | 41,955 | 41,955 | |
| ARIZONA | | | | | |
| DAVIS-MONTHAN AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 650 | 650 | 650 | 587 |
| | DAVIS-MONTHAN AFB TOTAL: | 650 | 650 | 650 | |
| LUKE AFB | | | | | |
| | FIRE TRAINING FACILITY | 800 | 800 | 800 | 590 |
| | UNDERGROUND FUEL STORAGE TANKS | 1,250 | 1,250 | 1,250 | 55 |
| | DINING FACILITY | 4,700 | 4,700 | 4,700 | 58 |
| | LUKE AFB TOTAL: | 6,750 | 6,750 | 6,750 | |
| NAVAJO ARMY DEPOT | | | | | |
| | ALTER MINUTEMAN II STORAGE FACILITIES | 7,250 | 7,250 | 7,250 | 62 |
| | NAVAJO ARMY DEPOT TOTAL: | 7,250 | 7,250 | 7,250 | |
| | ARIZONA TOTAL: | 14,650 | 14,650 | 14,650 | |
| ARKANSAS | | | | | |
| LITTLE ROCK AFB | | | | | |
| | ALTER JRTC OPERATIONS CENTER | 1,050 | 1,050 | 1,050 | 66 |
| | ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | 1,200 | 1,200 | 1,200 | 69 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | 2,250 | 2,250 | 2,250 | 71 |
| | LITTLE ROCK AFB TOTAL: | 4,500 | 4,500 | 4,500 | |
| | ARKANSAS TOTAL: | 4,500 | 4,500 | 4,500 | |
| CALIFORNIA | | | | | |
| EDWARDS AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE II | 5,400 | 5,400 | 5,400 | 75 |
| | CHILD DEVELOPMENT CENTER | 5,900 | 5,900 | 5,900 | 78 |
| | EDWARDS AFB TOTAL: | 11,300 | 11,300 | 11,300 | |
| MCCLELLAN AFB | | | | | |
| | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | 1,900 | 1,900 | 1,900 | 86 |
| | MCCLELLAN AFB TOTAL: | 1,900 | 1,900 | 1,900 | |
| TRAVIS AFB | | | | | |
| | AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | 11,200 | 11,200 | 11,200 | 89 |
| | UNDERGROUND FUEL STORAGE TANKS (DBOF) | 2,840 | 2,840 | 2,840 | 92 |
| | TRAVIS AFB TOTAL: | 14,040 | 14,040 | 14,040 | |
| VANDENBERG AFB | | | | | |
| | SLFI-TPQ-18 RADAR FACILITY | 2,408 | 2,408 | 2,408 | 93 |
| | HARDWARE STORAGE FACILITY | 3,500 | 3,500 | 3,500 | 96 |
| | UNDERGROUND FUEL STORAGE TANKS | 1,700 | 1,700 | 1,700 | 99 |
| | SLFI-UPGRADE ELECTRICAL SYSTEM | 11,520 | 11,520 | 11,520 | 102 |
| | SLFI-UPGRADE FIRE PROTECTION SYSTEM | 1,600 | 1,600 | 1,600 | 105 |
| | VANDENBERG AFB TOTAL: | 20,728 | 20,728 | 20,728 | |
| | CALIFORNIA TOTAL: | 47,968 | 47,968 | 47,968 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| CLASSIFIED LOCATIONS | | | | | |
| CLASSIFIED LOCATIONS | | | | | |
| | SPECIAL TACTICAL UNIT DETACHMENT FACILITY | 5,540 | 5,540 | 5,540 | 109 |
| | OMEGA FACILITIES | 2,600 | 2,600 | 2,600 | 110 |
| | CLASSIFIED LOCATIONS TOTAL: | 8,140 | 8,140 | 8,140 | |
| | CLASSIFIED LOCATIONS TOTAL: | 8,140 | 8,140 | 8,140 | |
| COLORADO | | | | | |
| BUCKLEY ANGB | | | | | |
| | COMMUNICATION DATA PROCESSING FACILITY | 39,000 | 39,000 | 39,000 | 111A |
| | BUCKLEY ANGB TOTAL: | 39,000 | 39,000 | 39,000 | |
| CHEYENNE MOUNTAIN AFB | | | | | |
| | UPGRADE ELECTRICAL SERVICE | 4,450 | 4,450 | 4,450 | 113 |
| | CHEYENNE MOUNTAIN AFB TOTAL: | 4,450 | 4,450 | 4,450 | |
| PETERSON AFB | | | | | |
| | ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | 16,400 | 16,400 | 16,400 | 118 |
| | PRECISION MEASUREMENT EQUIPMENT LABORATORY | 2,200 | 2,200 | 2,200 | 121 |
| | TEST AND EVALUATION SUPPORT FACILITY | 2,430 | 2,430 | 2,430 | 124 |
| | PETERSON AFB TOTAL: | 21,030 | 21,030 | 21,030 | |
| USAF ACADEMY | | | | | |
| | ENHANCED FLIGHT SCREENER HANGARS | 3,800 | 3,800 | 3,800 | 128 |
| | UNDERGROUND FUEL STORAGE TANKS | 780 | 780 | 780 | 593 |
| | ADD TO AND ALTER WASTEWATER TREATMENT PLANT | 7,100 | 7,100 | 7,100 | 131 |
| | USAF ACADEMY TOTAL: | 11,680 | 11,680 | 11,680 | |
| | COLORADO TOTAL: | 76,160 | 76,160 | 76,160 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| DELAWARE | | | | | |
| DOVER AFB | | | | | |
| | INSTALL EMISSION CONTROL DEVICES | 860 | 860 | 860 | 596 |
| | DORMITORY (DBOF) | 3,200 | 3,200 | 3,200 | 135 |
| | ADD TO AND ALTER DINING FACILITY (DBOF) | 2,500 | 2,500 | 2,500 | 138 |
| | DOVER AFB TOTAL: | 6,560 | 6,560 | 6,560 | |
| | DELAWARE TOTAL: | 6,560 | 6,560 | 6,560 | |
| DISTRICT OF COLUMBIA | | | | | |
| BOLLING AFB | | | | | |
| | ADD TO CHILD DEVELOPMENT CENTER | 2,000 | 2,000 | 2,000 | 142 |
| | BOLLING AFB TOTAL: | 2,000 | 2,000 | 2,000 | |
| | DISTRICT OF COLUMBIA TOTAL: | 2,000 | 2,000 | 2,000 | |
| FLORIDA | | | | | |
| CAPE CANAVERAL AFS | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 400 | 400 | 400 | 599 |
| | SLFI-BACKUP POWER | 2,500 | 2,500 | 2,500 | 147 |
| | SLFI-BACKUP POWER | 800 | 800 | 800 | 601 |
| | SEWAGE TREATMENT PLANT | 11,900 | 11,900 | 11,900 | 150 |
| | SLFI-UPGRADE WATER SUPPLY MAINS | 1,200 | 1,200 | 1,200 | 153 |
| | SLFI-UPGRADE FIRE SYSTEM | 2,400 | 2,400 | 2,400 | 156 |
| | CAPE CANAVERAL AFS TOTAL: | 19,200 | 19,200 | 19,200 | |
| EGLIN AFB | | | | | |
| | UPGRADE HYDRANT FUELING SYSTEM | 4,550 | 4,550 | 4,550 | 160 |
| | REPLACE POL PIPELINE | 3,300 | 3,300 | 3,300 | 163 |
| | AIRCRAFT ENGINE TEST FACILITY | 1,600 | 1,600 | 1,600 | 166 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | VEHICLE MAINTENANCE/WAREHOUSE FACILITIES | 2,600 | 2,600 | 2,600 | 169 |
| | RENOVATE CLIMATIC TEST CHAMBER, PHASE II | 0 | 57,000 | 57,000 | 172 |
| | EGLIN AFB TOTAL: | 12,050 | 69,050 | 69,050 | |
| EGLIN AUXILIARY 9 | | | | | |
| | ADD TO AND ALTER DORMITORIES | 4,479 | 4,479 | 4,479 | 176 |
| | UPGRADE SANITARY SEWAGE SYSTEM | 1,750 | 1,750 | 1,750 | 179 |
| | UPGRADE STORM SEWAGE SYSTEM | 1,600 | 1,600 | 1,600 | 182 |
| | EGLIN AUXILIARY 9 TOTAL: | 7,829 | 7,829 | 7,829 | |
| PATRICK AFB | | | | | |
| | ALTER MAINTENANCE HANGAR | 2,000 | 2,000 | 2,000 | 186 |
| | UNDERGROUND FUEL STORAGE TANKS | 1,850 | 1,850 | 1,850 | 189 |
| | PATRICK AFB TOTAL: | 3,850 | 3,850 | 3,850 | |
| TYNDALL AFB | | | | | |
| | BASE SUPPLY LOGISTICS CENTER | 2,600 | 2,600 | 2,600 | 193 |
| | TYNDALL AFB TOTAL: | 2,600 | 2,600 | 2,600 | |
| | FLORIDA TOTAL: | 45,529 | 102,529 | 102,529 | |
| GEORGIA | | | | | |
| ROBINS AFB | | | | | |
| | J-STARS ADD TO AND ALTER OPERATIONS COMPLEX | 4,100 | 4,100 | 4,100 | 198 |
| | J-STARS SQUADRON OPERATIONS/ AMU | 7,500 | 7,500 | 7,500 | 201 |
| | J-STARS ADD TO AND ALTER MAINTENANCE COMPLEX | 9,300 | 9,300 | 9,300 | 204 |
| | AIRCRAFT SUPPORT EQUIPMENT PAINT FACILITY | 970 | 970 | 970 | 604 |
| | ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER | 3,000 | 3,000 | 3,000 | 207 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | ADD TO AND ALTER DORMITORIES (DBOF) | 4,300 | 4,300 | 4,300 | 210 |
| | J-STARS ADD TO AND ALTER UTILITIES | 3,500 | 3,500 | 3,500 | 213 |
| | UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS | 10,700 | 10,700 | 10,700 | 216 |
| | ROBINS AFB TOTAL: | 43,370 | 43,370 | 43,370 | |
| | GEORGIA TOTAL: | 43,370 | 43,370 | 43,370 | |
| HAWAII | | | | | |
| HICKAM AFB | | | | | |
| | MILSTAR COMMUNICATIONS GROUND TERMINAL | 2,200 | 2,200 | 2,200 | 219A |
| | UNDERGROUND FUEL STORAGE TANKS | 2,100 | 2,100 | 2,100 | 220 |
| | DORMITORY | 5,950 | 5,950 | 5,950 | 223 |
| | HICKAM AFB TOTAL: | 10,250 | 10,250 | 10,250 | |
| KAENA POINT STS | | | | | |
| | POWER PLANT | 7,350 | 7,350 | 7,350 | 227 |
| | KAENA POINT STS TOTAL: | 7,350 | 7,350 | 7,350 | |
| | HAWAII TOTAL: | 17,600 | 17,600 | 17,600 | |
| ILLINOIS | | | | | |
| SCOTT AFB | | | | | |
| | INTEROPERABILITY TEST AND TRAINING FACILITY | 5,000 | 5,000 | 5,000 | 231 |
| | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | 2,450 | 2,450 | 2,450 | 234 |
| | SCOTT AFB TOTAL: | 7,450 | 7,450 | 7,450 | |
| | ILLINOIS TOTAL: | 7,450 | 7,450 | 7,450 | |
| KANSAS | | | | | |
| MCCONNELL AFB | | | | | |
| | CONTROL TOWER CAB | 900 | 900 | 900 | 607 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | LAND RESTRICTIVE EASEMENT ACQUISITION | 1,000 | 1,000 | 1,000 | 610 |
| | MCCONNELL AFB TOTAL: | 1.900 | 1.900 | 1.900 | |
| | KANSAS TOTAL: | 1.900 | 1.900 | 1.900 | |
| LOUISIANA | | | | | |
| BARKSDALE AFB | | | | | |
| | UPGRADE BULK STORAGE BASINS | 1,600 | 1,600 | 1,600 | 239 |
| | WEAPONS STORAGE AREA SECURITY | 960 | 960 | 960 | 613 |
| | BARKSDALE AFB TOTAL: | 2.560 | 2.560 | 2.560 | |
| | LOUISIANA TOTAL: | 2.560 | 2.560 | 2.560 | |
| MARYLAND | | | | | |
| ANDREWS AFB | | | | | |
| | AIR FREIGHT TERMINAL (DBOF) | 4,400 | 4,400 | 4,400 | 243 |
| | FIRE TRAINING FACILITY (DBOF) | 1,000 | 1,000 | 1,000 | 616 |
| | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | 9,940 | 9,940 | 9,940 | 246 |
| | UPGRADE SANITARY SEWER SYSTEMS | 2,650 | 2,650 | 2,650 | 249 |
| | ANDREWS AFB TOTAL: | 17.990 | 17.990 | 17.990 | |
| FORT GEORGE G. MEADE | | | | | |
| | ADD TO OPERATIONS FACILITY | 1,450 | 1,450 | 1,450 | 253 |
| | FORT GEORGE G. MEADE TOTAL: | 1.450 | 1.450 | 1.450 | |
| | MARYLAND TOTAL: | 19.440 | 19.440 | 19.440 | |
| MISSISSIPPI | | | | | |
| COLUMBUS AFB | | | | | |
| | UPGRADE AIRFIELD LIGHTING | 2,900 | 2,900 | 2,900 | 257 |
| | COLUMBUS AFB TOTAL: | 2.900 | 2.900 | 2.900 | |
| KEESLER AFB | | | | | |
| | FIRE TRAINING FACILITY | 690 | 690 | 690 | 619 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | UNDERGROUND FUEL STORAGE TANKS | 600 | 600 | 600 | 622 |
| | UPGRADE STUDENT DORMITORY | 4,500 | 4,500 | 4,500 | 261 |
| | UPGRADE SANITARY SEWER SYSTEM | 2,920 | 2,920 | 2,920 | 264 |
| | KEESLER AFB TOTAL: | 8,710 | 8,710 | 8,710 | |
| | MISSISSIPPI TOTAL: | 11,610 | 11,610 | 11,610 | |
| MISSOURI | | | | | |
| WHITEMAN AFB | | | | | |
| | B-2 AIRCRAFT APRON/TAXIWAY UPGRADE | 3,400 | 3,400 | 3,400 | 269 |
| | B-2 HYDRANT FUEL LOOP II, PHASE II | 2,700 | 2,700 | 2,700 | 271 |
| | B-2 AIRCRAFT MAINTENANCE DOCKS | 14,500 | 14,500 | 14,500 | 274 |
| | B-2 VEHICLE MAINTENANCE FACILITY | 1,700 | 1,700 | 1,700 | 277 |
| | B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | 3,338 | 3,338 | 3,338 | 280 |
| | B-2 UTILITY UPGRADE | 4,850 | 4,850 | 4,850 | 283 |
| | B-2 UPGRADE BASE ROADS, PHASE I | 5,900 | 5,900 | 5,900 | 286 |
| | B-2 DEFENSE ACCESS ROADS | 0 | 7,150 | 7,150 | 289 |
| | WHITEMAN AFB TOTAL: | 36,388 | 43,538 | 43,538 | |
| | MISSOURI TOTAL: | 36,388 | 43,538 | 43,538 | |
| MONTANA | | | | | |
| MALMSTROM AFB | | | | | |
| | BASE ENGINEERING COMPLEX (DBOF) | 6,200 | 6,200 | 6,200 | 294 |
| | UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES | 1,500 | 1,500 | 1,500 | 297 |
| | MALMSTROM AFB TOTAL: | 7,700 | 7,700 | 7,700 | |
| | MONTANA TOTAL: | 7,700 | 7,700 | 7,700 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| NEBRASKA | | | | | |
| OFFUTT AFB | | | | | |
| | REPAIR AIRFIELD PAVEMENTS AND LIGHTING | 8,700 | 8,700 | 8,700 | 301 |
| | ADD TO EMERGENCY BACK-UP POWER | 2,300 | 2,300 | 2,300 | 304 |
| | OFFUTT AFB TOTAL: | 11.000 | 11.000 | 11.000 | |
| | NEBRASKA TOTAL: | 11.000 | 11.000 | 11.000 | |
| NEVADA | | | | | |
| NELLIS AFB | | | | | |
| | UPGRADE POL TANKS | 1,650 | 1,650 | 1,650 | 308 |
| | NELLIS AFB TOTAL: | 1.650 | 1.650 | 1.650 | |
| | NEVADA TOTAL: | 1.650 | 1.650 | 1.650 | |
| NEW MEXICO | | | | | |
| CANNON AFB | | | | | |
| | SOUND SUPPRESSOR SUPPORT PAD | 665 | 665 | 665 | 625 |
| | FIRE TRAINING FACILITY | 1,000 | 1,000 | 1,000 | 628 |
| | UNDERGROUND FUEL STORAGE TANKS | 1,100 | 1,100 | 1,100 | 312 |
| | BASE ENGINEERING COMPLEX | 6,150 | 6,150 | 6,150 | 315 |
| | CANNON AFB TOTAL: | 8.915 | 8.915 | 8.915 | |
| HOLLOMAN AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 1,000 | 1,000 | 1,000 | 631 |
| | ADD TO AND ALTER DORMITORIES | 6,400 | 6,400 | 6,400 | 319 |
| | SEWER EFFLUENT SYSTEM | 1,800 | 1,800 | 1,800 | 322 |
| | HOLLOMAN AFB TOTAL: | 9.200 | 9.200 | 9.200 | |
| KIRTLAND AFB | | | | | |
| | AEROSPACE ENGINEERING FACILITY | 3,167 | 3,167 | 3,167 | 326 |
| | COMPOSITE MATERIALS LABORATORY | 5,750 | 5,750 | 5,750 | 329 |
| | SPACE STRUCTURES LABORATORY | 6,200 | 6,200 | 6,200 | 332 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | ALTER DORMITORY | 5,100 | 5,100 | 5,100 | 335 |
| | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 6,844 | 6,844 | 6,844 | 338 |
| | KIRTLAND AFB TOTAL: | 27,061 | 27,061 | 27,061 | |
| | NEW MEXICO TOTAL: | 45,176 | 45,176 | 45,176 | |
| NORTH CAROLINA<br>POPE AFB | | | | | |
| | ADD TO AND ALTER DORMITORIES | 4,300 | 4,300 | 4,300 | 342 |
| | DINING FACILITY | 4,300 | 4,300 | 4,300 | 345 |
| | POPE AFB TOTAL: | 8,600 | 8,600 | 8,600 | |
| SEYMOUR-JOHNSON AFB | | | | | |
| | MUNITIONS MAINTENANCE SUPPORT FACILITY | 480 | 480 | 480 | 634 |
| | ADD TO AND ALTER DORMITORIES | 4,900 | 4,900 | 4,900 | 349 |
| | SEYMOUR-JOHNSON AFB TOTAL: | 5,380 | 5,380 | 5,380 | |
| | NORTH CAROLINA TOTAL: | 13,980 | 13,980 | 13,980 | |
| NORTH DAKOTA<br>GRAND FORKS AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 2,600 | 2,600 | 2,600 | 353 |
| | GRAND FORKS AFB TOTAL: | 2,600 | 2,600 | 2,600 | |
| MINOT AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 2,000 | 2,000 | 2,000 | 357 |
| | MINOT AFB TOTAL: | 2,000 | 2,000 | 2,000 | |
| | NORTH DAKOTA TOTAL: | 4,600 | 4,600 | 4,600 | |
| OHIO<br>WRIGHT-PATTERSON AFB | | | | | |
| | ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | 5,650 | 5,650 | 5,650 | 362 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II | 12,850 | 12,850 | 12,850 | 365 |
| | SEAL FUEL CONTAINMENT DIKES | 1,500 | 1,500 | 1,500 | 368 |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE II | 3,200 | 3,200 | 3,200 | 370 |
| | RENOVATE ELECTRIC SUBSTATIONS | 4,450 | 4,450 | 4,450 | 373 |
| | WRIGHT-PATTERSON AFB TOTAL: | 27,650 | 27,650 | 27,650 | |
| | OHIO TOTAL: | 27,650 | 27,650 | 27,650 | |
| OKLAHOMA | | | | | |
| ALTUS AFB | | | | | |
| | C-17 FIRE STATION (DBOF) | 780 | 780 | 780 | 637 |
| | C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | 2,850 | 2,850 | 2,850 | 377 |
| | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | 3,300 | 3,300 | 3,300 | 380 |
| | ALTUS AFB TOTAL: | 6,930 | 6,930 | 6,930 | |
| TINKER AFB | | | | | |
| | ALTER HYDRANT FUELING SYSTEM | 4,129 | 4,129 | 4,129 | 385 |
| | MILSTAR COMMUNICATIONS GROUND TERMINAL | 800 | 800 | 800 | 638A |
| | SEAL FUEL CONTAINMENT DIKES | 620 | 620 | 620 | 639 |
| | UNDERGROUND FUEL STORAGE TANKS | 4,700 | 4,700 | 4,700 | 388 |
| | ENGINEERING AND CONTRACT SUPPORT FACILITY | 5,900 | 5,900 | 5,900 | 391 |
| | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | 5,400 | 5,400 | 5,400 | 394 |
| | TINKER AFB TOTAL: | 21,549 | 21,549 | 21,549 | |
| VANCE AFB | | | | | |
| | UPGRADE AIRFIELD LIGHTING | 3,300 | 3,300 | 3,300 | 398 |
| | T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | 2,700 | 2,700 | 2,700 | 401 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | VANCE AFB TOTAL: | 6,000 | 6,000 | 6,000 | |
| | OKLAHOMA TOTAL: | 34,479 | 34,479 | 34,479 | |
| SOUTH CAROLINA | | | | | |
| CHARLESTON AFB | | | | | |
| | FIRE TRAINING FACILITY (DBOF) | 1,100 | 1,100 | 1,100 | 405 |
| | CHARLESTON AFB TOTAL: | 1,100 | 1,100 | 1,100 | |
| SHAW AFB | | | | | |
| | CONTROL TOWER | 2,700 | 2,700 | 2,700 | 409 |
| | UNDERGROUND FUEL STORAGE TANKS | 520 | 520 | 520 | 641 |
| | CHILD DEVELOPMENT CENTER | 2,650 | 2,650 | 2,650 | 412 |
| | SHAW AFB TOTAL: | 5,870 | 5,870 | 5,870 | |
| | SOUTH CAROLINA TOTAL: | 6,970 | 6,970 | 6,970 | |
| SOUTH DAKOTA | | | | | |
| ELLSWORTH AFB | | | | | |
| | ALTER AIRCRAFT MAINTENANCE DOCK | 630 | 630 | 630 | 644 |
| | ELLSWORTH AFB TOTAL: | 630 | 630 | 630 | |
| | SOUTH DAKOTA TOTAL: | 630 | 630 | 630 | |
| TENNESSEE | | | | | |
| ARNOLD AFB | | | | | |
| | UPGRADE SEWAGE TREATMENT PLANT | 1,500 | 1,500 | 1,500 | 417 |
| | ARNOLD AFB TOTAL: | 1,500 | 1,500 | 1,500 | |
| MEMPHIS NAS | | | | | |
| | ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY | 3,000 | 3,000 | 3,000 | 421 |
| | ALTER TECHNICAL TRAINING FACILITY | 2,000 | 2,000 | 2,000 | 423 |
| | RENOVATE DORMITORY | 1,200 | 1,200 | 1,200 | 425 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | MEMPHIS NAS TOTAL: | 6,200 | 6,200 | 6,200 | |
| | TENNESSEE TOTAL: | 7,700 | 7,700 | 7,700 | |
| TEXAS | | | | | |
| DYESS AFB | | | | | |
| | UPGRADE HYDRANT FUELING SYSTEM, PHASE II | 9,500 | 9,500 | 9,500 | 428 |
| | WEAPONS STORAGE AREA SECURITY | 890 | 890 | 890 | 647 |
| | DYESS AFB TOTAL: | 10,390 | 10,390 | 10,390 | |
| GOODFELLOW AFB | | | | | |
| | BASE ENGINEERING COMPLEX | 3,700 | 3,700 | 3,700 | 432 |
| | GOODFELLOW AFB TOTAL: | 3,700 | 3,700 | 3,700 | |
| KELLY AFB | | | | | |
| | UPGRADE TAXIWAY | 3,550 | 3,550 | 3,550 | 437 |
| | C-17 ENGINEERING TEST LABORATORY | 2,600 | 2,600 | 2,600 | 440 |
| | C-17 ADD/ALTER NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | 4,900 | 4,900 | 4,900 | 443 |
| | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | 731 | 731 | 731 | 650 |
| | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | 7,800 | 7,800 | 7,800 | 446 |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 2,000 | 2,000 | 2,000 | 449 |
| | UPGRADE SANITARY SEWER MAINS, PHASE I | 3,000 | 3,000 | 3,000 | 452 |
| | UPGRADE STORM DRAINAGE SYSTEM, PHASE I | 2,900 | 2,900 | 2,900 | 455 |
| | KELLY AFB TOTAL: | 27,481 | 27,481 | 27,481 | |
| LACKLAND AFB | | | | | |
| | TRAINING SERVICES FACILITIES | 5,800 | 5,800 | 5,800 | 459 |
| | ALTER BASE SUPPORT FACILITY | 5,400 | 5,400 | 5,400 | 462 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | MISSION SUPPORT CENTER | 7,543 | 7,543 | 7,543 | 465 |
| | BASE CONTRACTING CENTER | 2,450 | 2,450 | 2,450 | 468 |
| | 7-LEVEL TRAINING DORMITORY | 8,900 | 8,900 | 8,900 | 470 |
| | LACKLAND AFB TOTAL: | 30,093 | 30,093 | 30,093 | |
| LACKLAND ANNEX | | | | | |
| | VEHICLE MAINTENANCE FACILITY | 1,200 | 1,200 | 1,200 | 474 |
| | LACKLAND ANNEX TOTAL: | 1,200 | 1,200 | 1,200 | |
| LAUGHLIN AFB | | | | | |
| | UPGRADE AIRFIELD PAVEMENT | 3,250 | 3,250 | 3,250 | 478 |
| | FIRE STATION | 2,400 | 2,400 | 2,400 | 481 |
| | UPGRADE AIRFIELD LIGHTING | 3,000 | 3,000 | 3,000 | 484 |
| | LAUGHLIN AFB TOTAL: | 8,650 | 8,650 | 8,650 | |
| RANDOLPH AFB | | | | | |
| | CONTROL TOWER | 2,800 | 2,800 | 2,800 | 488 |
| | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 2,500 | 2,500 | 2,500 | 491 |
| | RANDOLPH AFB TOTAL: | 5,300 | 5,300 | 5,300 | |
| REESE AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 900 | 900 | 900 | 653 |
| | REESE AFB TOTAL: | 900 | 900 | 900 | |
| SHEPPARD AFB | | | | | |
| | ENJJPT ALTER FLIGHT TRAINING FACILITY | 2,200 | 2,200 | 2,200 | 496 |
| | FIRE TRAINING FACILITY | 850 | 850 | 850 | 656 |
| | 7-LEVEL TRAINING DORMITORY | 14,200 | 14,200 | 14,200 | 499 |
| | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 780 | 780 | 780 | 659 |
| | SHEPPARD AFB TOTAL: | 18,030 | 18,030 | 18,030 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | TEXAS TOTAL: | 105,744 | 105,744 | 105,744 | |
| UTAH | | | | | |
| HILL AFB | | | | | |
| | FIRE TRAINING FACILITY (DBOF) | 880 | 880 | 880 | 662 |
| | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | 5,100 | 5,100 | 5,100 | 504 |
| | UPGRADE WATER DISTRIBUTION SYSTEM | 2,400 | 2,400 | 2,400 | 507 |
| | HILL AFB TOTAL: | 8,380 | 8,380 | 8,380 | |
| | UTAH TOTAL: | 8,380 | 8,380 | 8,380 | |
| VIRGINIA | | | | | |
| LANGLEY AFB | | | | | |
| | FIRE STATION | 3,850 | 3,850 | 3,850 | 511 |
| | ADD TO AND ALTER CARS OPERATIONS FACILITY | 5,373 | 5,373 | 5,373 | 514 |
| | BASE ENGINEERING COMPLEX, PHASE II | 4,000 | 4,000 | 4,000 | 517 |
| | UNDERGROUND FUEL STORAGE TANKS | 500 | 500 | 500 | 665 |
| | RESTORE KING STREET BRIDGE | 4,100 | 4,100 | 4,100 | 520 |
| | LANGLEY AFB TOTAL: | 17,823 | 17,823 | 17,823 | |
| | VIRGINIA TOTAL: | 17,823 | 17,823 | 17,823 | |
| WASHINGTON | | | | | |
| FAIRCHILD AFB | | | | | |
| | INTELLIGENCE TECHNICAL TRAINING FACILITY | 3,500 | 3,500 | 3,500 | 524 |
| | FAIRCHILD AFB TOTAL: | 3,500 | 3,500 | 3,500 | |
| MCCHORD AFB | | | | | |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 6,500 | 6,500 | 6,500 | 528 |
| | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | 4,400 | 4,400 | 4,400 | 531 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| | MCCHORD AFB TOTAL: | 10,900 | 10,900 | 10,900 | |
| | WASHINGTON TOTAL: | 14,400 | 14,400 | 14,400 | |
| WYOMING | | | | | |
| F E WARREN AFB | | | | | |
| | RENOVATE SECURITY POLICE OPERATIONS | 6,000 | 6,000 | 6,000 | 535 |
| | REMOTE MISSILE CREW FACILITIES | 3,800 | 3,800 | 3,800 | 538 |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE I | 2,200 | 2,200 | 2,200 | 541 |
| | WEAPONS STORAGE AREA SECURITY | 640 | 640 | 640 | 668 |
| | F E WARREN AFB TOTAL: | 12,640 | 12,640 | 12,640 | |
| | WYOMING TOTAL: | 12,640 | 12,640 | 12,640 | |
| | INSIDE THE UNITED STATES TOTAL: | 729,152 | 793,302 | 802,502 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| ANTIGUA | | | | | |
| ANTIGUA AS | | | | | |
| | SLFI-UPGRADE BACKUP GENERATOR | 1,000 | 1,000 | 1,000 | 671 |
| | ANTIGUA AS TOTAL: | 1,000 | 1,000 | 1,000 | |
| | ANTIGUA TOTAL: | 1,000 | 1,000 | 1,000 | |
| ASCENSION ISLAND | | | | | |
| ASCENSION AAF | | | | | |
| | WASTEWATER TREATMENT PLANT | 3,400 | 3,400 | 3,400 | 546 |
| | ASCENSION AAF TOTAL: | 3,400 | 3,400 | 3,400 | |
| | ASCENSION ISLAND TOTAL: | 3,400 | 3,400 | 3,400 | |
| CLASSIFIED LOCATIONS | | | | | |
| CLASSIFIED LOCATIONS | | | | | |
| | WAR READINESS MATERIEL WAREHOUSE | 5,500 | 5,500 | 5,500 | 550 |
| | CLASSIFIED LOCATIONS TOTAL: | 5,500 | 5,500 | 5,500 | |
| | CLASSIFIED LOCATIONS TOTAL: | 5,500 | 5,500 | 5,500 | |
| GERMANY | | | | | |
| RAMSTEIN AB | | | | | |
| | CHILD DEVELOPMENT CENTER | 3,100 | 3,100 | 3,100 | 553 |
| | RAMSTEIN AB TOTAL: | 3,100 | 3,100 | 3,100 | |
| | GERMANY TOTAL: | 3,100 | 3,100 | 3,100 | |
| GREENLAND | | | | | |
| THULE AB | | | | | |
| | WASTEWATER TREATMENT PLANT | 5,492 | 5,492 | 5,492 | 557 |
| | THULE AB TOTAL: | 5,492 | 5,492 | 5,492 | |
| | GREENLAND TOTAL: | 5,492 | 5,492 | 5,492 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| GUAM | | | | | |
| ANDERSEN AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 4,100 | 4,100 | 4,100 | 560 |
| | ANDERSEN AFB TOTAL: | 4,100 | 4,100 | 4,100 | |
| | GUAM TOTAL: | 4,100 | 4,100 | 4,100 | |
| INDIAN OCEAN | | | | | |
| DIEGO GARCIA AB | | | | | |
| | GPS INSTRUMENTATION FACILITY | 1,700 | 1,700 | 1,700 | 564 |
| | SATELLITE TRACKING STORAGE FACILITY | 560 | 560 | 560 | 674 |
| | DIEGO GARCIA AB TOTAL: | 2,260 | 2,260 | 2,260 | |
| | INDIAN OCEAN TOTAL: | 2,260 | 2,260 | 2,260 | |
| OMAN | | | | | |
| THUMRAIT AB | | | | | |
| | WAR READINESS MATERIEL COVERED STORAGE FACILITY | 1,800 | 1,800 | 1,800 | 568 |
| | THUMRAIT AB TOTAL: | 1,800 | 1,800 | 1,800 | |
| | OMAN TOTAL: | 1,800 | 1,800 | 1,800 | |
| TURKEY | | | | | |
| INCIRLIK AB | | | | | |
| | ADD TO AND ALTER DORMITORIES | 2,400 | 2,400 | 2,400 | 571 |
| | INCIRLIK AB TOTAL: | 2,400 | 2,400 | 2,400 | |
| | TURKEY TOTAL: | 2,400 | 2,400 | 2,400 | |
| UNITED KINGDOM | | | | | |
| RAF MILDENHALL | | | | | |
| | NAVAL AIR FACILITY | 4,800 | 4,800 | 4,800 | 575 |
| | RAF MILDENHALL TOTAL: | 4,800 | 4,800 | 4,800 | |
| | UNITED KINGDOM TOTAL: | 4,800 | 4,800 | 4,800 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| OUTSIDE THE UNITED STATES TOTAL: | | 33,852 | 33,852 | 33,852 | |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
WORLDWIDE


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| VARIOUS | | | | | |
| VARIOUS LOCATIONS | | | | | |
| | PLANNING & DESIGN | 0 | 63,180 | 63,180 | 578 |
| | UNSPECIFIED MINOR CONSTRUCTION | 0 | 6,844 | 6,844 | 580 |
| | VARIOUS LOCATIONS TOTAL: | 0 | 70,024 | 70,024 | |
| | VARIOUS TOTAL: | 0 | 70,024 | 70,024 | |
| | WORLDWIDE TOTAL: | 0 | 70,024 | 70,024 | |
| | FY 94 TOTAL: | 763,004 | 897,178 | 906,378 | |

DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS - These projects support the deployment and beddown of new weapons systems, new or additional aircraft, missile, and space programs and support of new equipment such as radars, communications, computers, satellite tracking and electronic security. New mission projects all support new programs and initiatives that do not revitalize the existing physical plant. The projects support new and additional requirements. Planning and design and minor construction are also included in this category.

CURRENT MISSION PROJECTS - These projects revitalize the existing facility plant by replacement or upgrading existing facilities and by alleviating long standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace and projects to increase productivity and achieve compliance with environmental, health and safety standards.

| FY 94 | ($000) |
|---|---|
| NEW MISSION | $312,863 |
| CURRENT MISSION | $593,515 |
| TOTAL | $906,378 |

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | APPROP AMOUNT | TYPE |
|---|---|---|---|
| ALABAMA | | | |
| GUNTER ANNEX | | | |
| | HAZARDOUS WASTE ACCUMULATION FACILITY | 310 | CM |
| | CHILD DEVELOPMENT CENTER | 2,700 | CM |
| | EMERGENCY POWER GENERATOR PLANT | 1,200 | NM |
| | SPILL CONTAINMENT CONTROLS | 470 | CM |
| | **GUNTER ANNEX TOTAL:** | 4,680 | |
| MAXWELL AFB | | | |
| | EXTEND RUNWAY/UPGRADE | 9,200 | CM |
| | TAXIWAY/RAMP | 3,800 | CM |
| | AIR FORCE QUALITY CENTER | 4,650 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 1,700 | CM |
| | SPILL CONTAINMENT CONTROLS | 970 | CM |
| | UPGRADE UTILITY SYSTEMS, PHASE I | 5,050 | CM |
| | **MAXWELL AFB TOTAL:** | 25,370 | |
| | **ALABAMA TOTAL:** | 30,050 | |
| ALASKA | | | |
| CAPE ROMANZOF LRRS | | | |
| | REPLACE TRAMWAY SYSTEM | 3,350 | CM |
| | **CAPE ROMANZOF LRRS TOTAL:** | 3,350 | |
| EIELSON AFB | | | |
| | FIRE TRAINING FACILITY | 2,400 | CM |
| | CHILD DEVELOPMENT CENTER | 5,400 | CM |
| | **EIELSON AFB TOTAL:** | 7,800 | |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| ELMENDORF AFB | | | |
| | CORROSION CONTROL FACILITY | 5,975 | CM |
| | MUNITIONS MAINTENANCE FACILITY | 2,100 | NM |
| | MUNITIONS EQUIPMENT FACILITY | 1,860 | NM |
| | HAZARDOUS WASTE STORAGE FACILITY | 3,900 | CM |
| | DINING FACILITY | 6,800 | CM |
| | CHILD DEVELOPMENT CENTER | 5,070 | CM |
| | ADD TO SANITARY SEWER SYSTEM | 5,100 | CM |
| | **ELMENDORF AFB TOTAL:** | 30,805 | |
| | **ALASKA TOTAL:** | 41,955 | |
| ARIZONA | | | |
| DAVIS-MONTHAN AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 650 | CM |
| | **DAVIS-MONTHAN AFB TOTAL:** | 650 | |
| LUKE AFB | | | |
| | FIRE TRAINING FACILITY | 800 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 1,250 | CM |
| | DINING FACILITY | 4,700 | CM |
| | **LUKE AFB TOTAL:** | 6,750 | |
| NAVAJO ARMY DEPOT | | | |
| | ALTER MINUTEMAN II STORAGE FACILITIES | 7,250 | NM |
| | **NAVAJO ARMY DEPOT TOTAL:** | 7,250 | |
| | **ARIZONA TOTAL:** | 14,650 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| ARKANSAS | | | |
| LITTLE ROCK AFB | | | |
| | ALTER JRTC OPERATIONS CENTER | 1,050 | NM |
| | ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | 1,200 | CM |
| | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | 2,250 | CM |
| | LITTLE ROCK AFB TOTAL: | 4,500 | |
| | ARKANSAS TOTAL: | 4,500 | |
| CALIFORNIA | | | |
| EDWARDS AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE II | 5,400 | CM |
| | CHILD DEVELOPMENT CENTER | 5,900 | CM |
| | EDWARDS AFB TOTAL: | 11,300 | |
| MCCLELLAN AFB | | | |
| | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | 1,900 | CM |
| | MCCLELLAN AFB TOTAL: | 1,900 | |
| TRAVIS AFB | | | |
| | AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | 11,200 | CM |
| | UNDERGROUND FUEL STORAGE TANKS (DBOF) | 2,840 | CM |
| | TRAVIS AFB TOTAL: | 14,040 | |
| VANDENBERG AFB | | | |
| | SLFI-TPQ-18 RADAR FACILITY | 2,408 | CM |
| | HARDWARE STORAGE FACILITY | 3,500 | NM |
| | UNDERGROUND FUEL STORAGE TANKS | 1,700 | CM |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| | SLFI-UPGRADE ELECTRICAL SYSTEM | 11,520 | CM |
| | SLFI-UPGRADE FIRE PROTECTION SYSTEM | 1,600 | CM |
| | VANDENBERG AFB TOTAL: | 20,728 | |
| | CALIFORNIA TOTAL: | 47,968 | |
| CLASSIFIED LOCATIONS | | | |
| CLASSIFIED LOCATIONS | | | |
| | SPECIAL TACTICAL UNIT DETACHMENT FACILITY | 5,540 | NM |
| | OMEGA FACILITIES | 2,600 | NM |
| | CLASSIFIED LOCATIONS TOTAL: | 8,140 | |
| | CLASSIFIED LOCATIONS TOTAL: | 8,140 | |
| COLORADO | | | |
| BUCKLEY ANGB | | | |
| | COMMUNICATION DATA PROCESSING FACILITY | 39,000 | NM |
| | BUCKLEY ANGB TOTAL: | 39,000 | |
| CHEYENNE MOUNTAIN AFB | | | |
| | UPGRADE ELECTRICAL SERVICE | 4,450 | CM |
| | CHEYENNE MOUNTAIN AFB TOTAL: | 4,450 | |
| PETERSON AFB | | | |
| | ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | 16,400 | NM |
| | PRECISION MEASUREMENT EQUIPMENT LABORATORY | 2,200 | NM |
| | TEST AND EVALUATION SUPPORT FACILITY | 2,430 | CM |
| | PETERSON AFB TOTAL: | 21,030 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| USAF ACADEMY | | | |
| | ENHANCED FLIGHT SCREENER HANGARS | 3,800 | NM |
| | UNDERGROUND FUEL STORAGE TANKS | 780 | CM |
| | ADD TO AND ALTER WASTEWATER TREATMENT PLANT | 7,100 | CM |
| | USAF ACADEMY TOTAL: | 11,680 | |
| | COLORADO TOTAL: | 76,160 | |
| DELAWARE | | | |
| DOVER AFB | | | |
| | INSTALL EMISSION CONTROL DEVICES | 860 | CM |
| | DORMITORY (DBOF) | 3,200 | CM |
| | ADD TO AND ALTER DINING FACILITY (DBOF) | 2,500 | CM |
| | DOVER AFB TOTAL: | 6,560 | |
| | DELAWARE TOTAL: | 6,560 | |
| DISTRICT OF COLUMBIA | | | |
| BOLLING AFB | | | |
| | ADD TO CHILD DEVELOPMENT CENTER | 2,000 | CM |
| | BOLLING AFB TOTAL: | 2,000 | |
| | DISTRICT OF COLUMBIA TOTAL: | 2,000 | |
| FLORIDA | | | |
| CAPE CANAVERAL AFS | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 400 | CM |
| | SLFI-BACKUP POWER | 2,500 | CM |
| | SLFI-BACKUP POWER | 800 | CM |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | APPROP AMOUNT | TYPE |
|---|---|---|---|
| | SEWAGE TREATMENT PLANT | 11,900 | CM |
| | SLFI-UPGRADE WATER SUPPLY MAINS | 1,200 | CM |
| | SLFI-UPGRADE FIRE SYSTEM | 2,400 | CM |
| | **CAPE CANAVERAL AFS TOTAL:** | 19,200 | |
| EGLIN AFB | | | |
| | UPGRADE HYDRANT FUELING SYSTEM | 4,550 | CM |
| | REPLACE POL PIPELINE | 3,300 | CM |
| | AIRCRAFT ENGINE TEST FACILITY | 1,600 | CM |
| | VEHICLE MAINTENANCE/WAREHOUSE FACILITIES | 2,600 | CM |
| | RENOVATE CLIMATIC TEST CHAMBER, PHASE II | 57,000 | CM |
| | **EGLIN AFB TOTAL:** | 69,050 | |
| EGLIN AUXILIARY 9 | | | |
| | ADD TO AND ALTER DORMITORIES | 4,479 | CM |
| | UPGRADE SANITARY SEWAGE SYSTEM | 1,750 | CM |
| | UPGRADE STORM SEWAGE SYSTEM | 1,600 | CM |
| | **EGLIN AUXILIARY 9 TOTAL:** | 7,829 | |
| PATRICK AFB | | | |
| | ALTER MAINTENANCE HANGAR | 2,000 | NM |
| | UNDERGROUND FUEL STORAGE TANKS | 1,850 | CM |
| | **PATRICK AFB TOTAL:** | 3,850 | |
| TYNDALL AFB | | | |
| | BASE SUPPLY LOGISTICS CENTER | 2,600 | CM |
| | **TYNDALL AFB TOTAL:** | 2,600 | |
| | **FLORIDA TOTAL:** | 102,529 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| GEORGIA | | | |
| ROBINS AFB | | | |
| | J-STARS ADD TO AND ALTER OPERATIONS COMPLEX | 4,100 | NM |
| | J-STARS SQUADRON OPERATIONS/ AMU | 7,500 | NM |
| | J-STARS ADD TO AND ALTER MAINTENANCE COMPLEX | 9,300 | NM |
| | AIRCRAFT SUPPORT EQUIPMENT PAINT FACILITY | 970 | CM |
| | ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER | 3,000 | CM |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 4,300 | CM |
| | J-STARS ADD TO AND ALTER UTILITIES | 3,500 | NM |
| | UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS | 10,700 | CM |
| | ROBINS AFB TOTAL: | 43,370 | |
| | GEORGIA TOTAL: | 43,370 | |
| HAWAII | | | |
| HICKAM AFB | | | |
| | MILSTAR COMMUNICATIONS GROUND TERMINAL | 2,200 | NM |
| | UNDERGROUND FUEL STORAGE TANKS | 2,100 | CM |
| | DORMITORY | 5,950 | CM |
| | HICKAM AFB TOTAL: | 10,250 | |
| KAENA POINT STS | | | |
| | POWER PLANT | 7,350 | CM |
| | KAENA POINT STS TOTAL: | 7,350 | |
| | HAWAII TOTAL: | 17,600 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | APPROP AMOUNT | TYPE |
|---|---|---|---|
| ILLINOIS | | | |
| SCOTT AFB | | | |
| | INTEROPERABILITY TEST AND TRAINING FACILITY | 5,000 | CM |
| | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | 2,450 | CM |
| | SCOTT AFB TOTAL: | 7,450 | |
| | ILLINOIS TOTAL: | 7,450 | |
| KANSAS | | | |
| MCCONNELL AFB | | | |
| | CONTROL TOWER CAB | 900 | CM |
| | LAND RESTRICTIVE EASEMENT ACQUISITION | 1,000 | CM |
| | MCCONNELL AFB TOTAL: | 1,900 | |
| | KANSAS TOTAL: | 1,900 | |
| LOUISIANA | | | |
| BARKSDALE AFB | | | |
| | UPGRADE BULK STORAGE BASINS | 1,600 | CM |
| | WEAPONS STORAGE AREA SECURITY | 960 | CM |
| | BARKSDALE AFB TOTAL: | 2,560 | |
| | LOUISIANA TOTAL: | 2,560 | |
| MARYLAND | | | |
| ANDREWS AFB | | | |
| | AIR FREIGHT TERMINAL (DBOF) | 4,400 | CM |
| | FIRE TRAINING FACILITY (DBOF) | 1,000 | CM |
| | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | 9,940 | CM |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| | UPGRADE SANITARY SEWER SYSTEMS | 2,650 | CM |
| | ANDREWS AFB TOTAL: | 17,990 | |
| FORT GEORGE G. MEADE | | | |
| | ADD TO OPERATIONS FACILITY | 1,450 | NM |
| | FORT GEORGE G. MEADE TOTAL: | 1,450 | |
| | MARYLAND TOTAL: | 19,440 | |
| MISSISSIPPI | | | |
| COLUMBUS AFB | | | |
| | UPGRADE AIRFIELD LIGHTING | 2,900 | CM |
| | COLUMBUS AFB TOTAL: | 2,900 | |
| KEESLER AFB | | | |
| | FIRE TRAINING FACILITY | 690 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 600 | CM |
| | UPGRADE STUDENT DORMITORY | 4,500 | CM |
| | UPGRADE SANITARY SEWER SYSTEM | 2,920 | CM |
| | KEESLER AFB TOTAL: | 8,710 | |
| | MISSISSIPPI TOTAL: | 11,610 | |
| MISSOURI | | | |
| WHITEMAN AFB | | | |
| | B-2 AIRCRAFT APRON/TAXIWAY UPGRADE | 3,400 | NM |
| | B-2 HYDRANT FUEL LOOP II, PHASE II | 2,700 | NM |
| | B-2 AIRCRAFT MAINTENANCE DOCKS | 14,500 | NM |
| | B-2 VEHICLE MAINTENANCE FACILITY | 1,700 | NM |
| | B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | 3,338 | NM |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| | B-2 UTILITY UPGRADE | 4,850 | NM |
| | B-2 UPGRADE BASE ROADS, PHASE I | 5,900 | NM |
| | B-2 DEFENSE ACCESS ROADS | 7,150 | NM |
| | **WHITEMAN AFB TOTAL:** | 43,538 | |
| | **MISSOURI TOTAL:** | 43,538 | |
| MONTANA | | | |
| MALMSTROM AFB | | | |
| | BASE ENGINEERING COMPLEX (DBOF) | 6,200 | CM |
| | UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES | 1,500 | CM |
| | **MALMSTROM AFB TOTAL:** | 7,700 | |
| | **MONTANA TOTAL:** | 7,700 | |
| NEBRASKA | | | |
| OFFUTT AFB | | | |
| | REPAIR AIRFIELD PAVEMENTS AND LIGHTING | 8,700 | CM |
| | ADD TO EMERGENCY BACK-UP POWER | 2,300 | CM |
| | **OFFUTT AFB TOTAL:** | 11,000 | |
| | **NEBRASKA TOTAL:** | 11,000 | |
| NEVADA | | | |
| NELLIS AFB | | | |
| | UPGRADE POL TANKS | 1,650 | CM |
| | **NELLIS AFB TOTAL:** | 1,650 | |
| | **NEVADA TOTAL:** | 1,650 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| NEW MEXICO | | | |
| CANNON AFB | | | |
| | SOUND SUPPRESSOR SUPPORT PAD | 665 | CM |
| | FIRE TRAINING FACILITY | 1,000 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 1,100 | CM |
| | BASE ENGINEERING COMPLEX | 6,150 | CM |
| | **CANNON AFB TOTAL:** | 8,915 | |
| HOLLOMAN AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 1,000 | CM |
| | ADD TO AND ALTER DORMITORIES | 6,400 | CM |
| | SEWER EFFLUENT SYSTEM | 1,800 | CM |
| | **HOLLOMAN AFB TOTAL:** | 9,200 | |
| KIRTLAND AFB | | | |
| | AEROSPACE ENGINEERING FACILITY | 3,167 | NM |
| | COMPOSITE MATERIALS LABORATORY | 5,750 | NM |
| | SPACE STRUCTURES LABORATORY | 6,200 | NM |
| | ALTER DORMITORY | 5,100 | CM |
| | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 6,844 | CM |
| | **KIRTLAND AFB TOTAL:** | 27,061 | |
| | **NEW MEXICO TOTAL:** | 45,176 | |
| NORTH CAROLINA | | | |
| POPE AFB | | | |
| | ADD TO AND ALTER DORMITORIES | 4,300 | CM |
| | DINING FACILITY | 4,300 | CM |
| | **POPE AFB TOTAL:** | 8,600 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| SEYMOUR-JOHNSON AFB | | | |
| | MUNITIONS MAINTENANCE SUPPORT FACILITY | 480 | CM |
| | ADD TO AND ALTER DORMITORIES | 4,900 | CM |
| | SEYMOUR-JOHNSON AFB TOTAL: | 5,380 | |
| | NORTH CAROLINA TOTAL: | 13,980 | |
| NORTH DAKOTA | | | |
| GRAND FORKS AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 2,600 | CM |
| | GRAND FORKS AFB TOTAL: | 2,600 | |
| MINOT AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 2,000 | CM |
| | MINOT AFB TOTAL: | 2,000 | |
| | NORTH DAKOTA TOTAL: | 4,600 | |
| OHIO | | | |
| WRIGHT-PATTERSON AFB | | | |
| | ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | 5,650 | CM |
| | ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II | 12,850 | CM |
| | SEAL FUEL CONTAINMENT DIKES | 1,500 | CM |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE II | 3,200 | CM |
| | RENOVATE ELECTRIC SUBSTATIONS | 4,450 | CM |
| | WRIGHT-PATTERSON AFB TOTAL: | 27,650 | |
| | OHIO TOTAL: | 27,650 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| OKLAHOMA | | | |
| ALTUS AFB | | | |
| | C-17 FIRE STATION (DBOF) | 780 | NM |
| | C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | 2,850 | NM |
| | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | 3,300 | NM |
| | ALTUS AFB TOTAL: | 6,930 | |
| TINKER AFB | | | |
| | ALTER HYDRANT FUELING SYSTEM | 4,129 | CM |
| | MILSTAR COMMUNICATIONS GROUND TERMINAL | 800 | NM |
| | SEAL FUEL CONTAINMENT DIKES | 620 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 4,700 | CM |
| | ENGINEERING AND CONTRACT SUPPORT FACILITY | 5,900 | CM |
| | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | 5,400 | CM |
| | TINKER AFB TOTAL: | 21,549 | |
| VANCE AFB | | | |
| | UPGRADE AIRFIELD LIGHTING | 3,300 | CM |
| | T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | 2,700 | NM |
| | VANCE AFB TOTAL: | 6,000 | |
| | OKLAHOMA TOTAL: | 34,479 | |
| SOUTH CAROLINA | | | |
| CHARLESTON AFB | | | |
| | FIRE TRAINING FACILITY (DBOF) | 1,100 | CM |
| | CHARLESTON AFB TOTAL: | 1,100 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| SHAW AFB | | | |
| | CONTROL TOWER | 2,700 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 520 | CM |
| | CHILD DEVELOPMENT CENTER | 2,650 | CM |
| | **SHAW AFB TOTAL:** | 5,870 | |
| | **SOUTH CAROLINA TOTAL:** | 6,970 | |
| SOUTH DAKOTA | | | |
| ELLSWORTH AFB | | | |
| | ALTER AIRCRAFT MAINTENANCE DOCK | 630 | CM |
| | **ELLSWORTH AFB TOTAL:** | 630 | |
| | **SOUTH DAKOTA TOTAL:** | 630 | |
| TENNESSEE | | | |
| ARNOLD AFB | | | |
| | UPGRADE SEWAGE TREATMENT PLANT | 1,500 | CM |
| | **ARNOLD AFB TOTAL:** | 1,500 | |
| MEMPHIS NAS | | | |
| | ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY | 3,000 | NM |
| | ALTER TECHNICAL TRAINING FACILITY | 2,000 | NM |
| | RENOVATE DORMITORY | 1,200 | NM |
| | **MEMPHIS NAS TOTAL:** | 6,200 | |
| | **TENNESSEE TOTAL:** | 7,700 | |
| TEXAS | | | |
| DYESS AFB | | | |
| | UPGRADE HYDRANT FUELING SYSTEM, PHASE II | 9,500 | CM |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
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INSIDE THE UNITED STATES

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|---|---|---|---|
| | WEAPONS STORAGE AREA SECURITY | 890 | CM |
| | **DYESS AFB TOTAL:** | 10,390 | |
| GOODFELLOW AFB | | | |
| | BASE ENGINEERING COMPLEX | 3,700 | CM |
| | **GOODFELLOW AFB TOTAL:** | 3,700 | |
| KELLY AFB | | | |
| | UPGRADE TAXIWAY | 3,550 | CM |
| | C-17 ENGINEERING TEST LABORATORY | 2,600 | NM |
| | C-17 ADD/ALTER NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | 4,900 | NM |
| | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | 731 | NM |
| | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | 7,800 | CM |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 2,000 | CM |
| | UPGRADE SANITARY SEWER MAINS, PHASE I | 3,000 | CM |
| | UPGRADE STORM DRAINAGE SYSTEM, PHASE I | 2,900 | CM |
| | **KELLY AFB TOTAL:** | 27,481 | |
| LACKLAND AFB | | | |
| | TRAINING SERVICES FACILITIES | 5,800 | CM |
| | ALTER BASE SUPPORT FACILITY | 5,400 | CM |
| | MISSION SUPPORT CENTER | 7,543 | CM |
| | BASE CONTRACTING CENTER | 2,450 | CM |
| | 7-LEVEL TRAINING DORMITORY | 8,900 | NM |
| | **LACKLAND AFB TOTAL:** | 30,093 | |

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

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|---|---|---|---|
| LACKLAND ANNEX | | | |
| | VEHICLE MAINTENANCE FACILITY | 1,200 | CM |
| | **LACKLAND ANNEX TOTAL:** | 1,200 | |
| LAUGHLIN AFB | | | |
| | UPGRADE AIRFIELD PAVEMENT | 3,250 | CM |
| | FIRE STATION | 2,400 | CM |
| | UPGRADE AIRFIELD LIGHTING | 3,000 | CM |
| | **LAUGHLIN AFB TOTAL:** | 8,650 | |
| RANDOLPH AFB | | | |
| | CONTROL TOWER | 2,800 | CM |
| | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 2,500 | CM |
| | **RANDOLPH AFB TOTAL:** | 5,300 | |
| REESE AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 900 | CM |
| | **REESE AFB TOTAL:** | 900 | |
| SHEPPARD AFB | | | |
| | ENJJPT ALTER FLIGHT TRAINING FACILITY | 2,200 | NM |
| | FIRE TRAINING FACILITY | 850 | CM |
| | 7-LEVEL TRAINING DORMITORY | 14,200 | NM |
| | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 780 | CM |
| | **SHEPPARD AFB TOTAL:** | 18,030 | |
| | **TEXAS TOTAL:** | 105,744 | |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY INSTALLATION | PROJECT | APPROP AMOUNT | TYPE |
|---|---|---|---|
| UTAH | | | |
| HILL AFB | | | |
| | FIRE TRAINING FACILITY (DBOF) | 880 | CM |
| | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | 5,100 | CM |
| | UPGRADE WATER DISTRIBUTION SYSTEM | 2,400 | CM |
| | **HILL AFB TOTAL:** | 8,380 | |
| | **UTAH TOTAL:** | 8,380 | |
| VIRGINIA | | | |
| LANGLEY AFB | | | |
| | FIRE STATION | 3,850 | CM |
| | ADD TO AND ALTER CARS OPERATIONS FACILITY | 5,373 | NM |
| | BASE ENGINEERING COMPLEX, PHASE II | 4,000 | CM |
| | UNDERGROUND FUEL STORAGE TANKS | 500 | CM |
| | RESTORE KING STREET BRIDGE | 4,100 | CM |
| | **LANGLEY AFB TOTAL:** | 17,823 | |
| | **VIRGINIA TOTAL:** | 17,823 | |
| WASHINGTON | | | |
| FAIRCHILD AFB | | | |
| | INTELLIGENCE TECHNICAL TRAINING FACILITY | 3,500 | CM |
| | **FAIRCHILD AFB TOTAL:** | 3,500 | |
| MCCHORD AFB | | | |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 6,500 | CM |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | 4,400 | CM |
| | MCCHORD AFB TOTAL: | 10,900 | |
| | WASHINGTON TOTAL: | 14,400 | |
| WYOMING | | | |
| F E WARREN AFB | | | |
| | RENOVATE SECURITY POLICE OPERATIONS | 6,000 | CM |
| | REMOTE MISSILE CREW FACILITIES | 3,800 | CM |
| | UNDERGROUND FUEL STORAGE TANKS, PHASE I | 2,200 | CM |
| | WEAPONS STORAGE AREA SECURITY | 640 | CM |
| | F E WARREN AFB TOTAL: | 12,640 | |
| | WYOMING TOTAL: | 12,640 | |
| | INSIDE THE UNITED STATES TOTAL: | 802,502 | |
| ANTIGUA | | | |
| ANTIGUA AS | | | |
| | SLFI-UPGRADE BACKUP GENERATOR | 1,000 | CM |
| | ANTIGUA AS TOTAL: | 1,000 | |
| | ANTIGUA TOTAL: | 1,000 | |
| ASCENSION ISLAND | | | |
| ASCENSION AAF | | | |
| | WASTEWATER TREATMENT PLANT | 3,400 | CM |
| | ASCENSION AAF TOTAL: | 3,400 | |
| | ASCENSION ISLAND TOTAL: | 3,400 | |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| CLASSIFIED LOCATIONS | | | |
| CLASSIFIED LOCATIONS | | | |
| | WAR READINESS MATERIEL WAREHOUSE | 5,500 | NM |
| | CLASSIFIED LOCATIONS TOTAL: | 5,500 | |
| | CLASSIFIED LOCATIONS TOTAL: | 5,500 | |
| GERMANY | | | |
| RAMSTEIN AB | | | |
| | CHILD DEVELOPMENT CENTER | 3,100 | CM |
| | RAMSTEIN AB TOTAL: | 3,100 | |
| | GERMANY TOTAL: | 3,100 | |
| GREENLAND | | | |
| THULE AB | | | |
| | WASTEWATER TREATMENT PLANT | 5,492 | CM |
| | THULE AB TOTAL: | 5,492 | |
| | GREENLAND TOTAL: | 5,492 | |
| GUAM | | | |
| ANDERSEN AFB | | | |
| | UNDERGROUND FUEL STORAGE TANKS | 4,100 | CM |
| | ANDERSEN AFB TOTAL: | 4,100 | |
| | GUAM TOTAL: | 4,100 | |
| INDIAN OCEAN | | | |
| DIEGO GARCIA AB | | | |
| | GPS INSTRUMENTATION FACILITY | 1,700 | CM |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

| STATE/COUNTRY<br>INSTALLATION | PROJECT | APPROP<br>AMOUNT | TYPE |
|---|---|---|---|
| | SATELLITE TRACKING STORAGE FACILITY | 560 | CM |
| | DIEGO GARCIA AB TOTAL: | 2,260 | |
| | INDIAN OCEAN TOTAL: | 2,260 | |
| OMAN | | | |
| THUMRAIT AB | | | |
| | WAR READINESS MATERIEL COVERED STORAGE FACILITY | 1,800 | NM |
| | THUMRAIT AB TOTAL: | 1,800 | |
| | OMAN TOTAL: | 1,800 | |
| TURKEY | | | |
| INCIRLIK AB | | | |
| | ADD TO AND ALTER DORMITORIES | 2,400 | CM |
| | INCIRLIK AB TOTAL: | 2,400 | |
| | TURKEY TOTAL: | 2,400 | |
| UNITED KINGDOM | | | |
| RAF MILDENHALL | | | |
| | NAVAL AIR FACILITY | 4,800 | NM |
| | RAF MILDENHALL TOTAL: | 4,800 | |
| | UNITED KINGDOM TOTAL: | 4,800 | |
| | OUTSIDE THE UNITED STATES TOTAL: | 33,852 | |
| VARIOUS | | | |
| VARIOUS LOCATIONS | | | |
| | PLANNING & DESIGN | 63,180 | NM |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
CURRENT MISSION, NEW MISSION AND
WORLDWIDE
(DOLLARS IN THOUSANDS)
WORLDWIDE

| STATE/COUNTRY INSTALLATION | PROJECT | APPROP AMOUNT | TYPE |
|---|---|---|---|
| | UNSPECIFIED MINOR CONSTRUCTION | 6,844 | NM |
| | VARIOUS LOCATIONS TOTAL: | 70,024 | |
| | VARIOUS TOTAL: | 70,024 | |
| | WORLDWIDE TOTAL: | 70,024 | |
| | FY 94 PROGRAM TOTAL: | 906,378 | |

Legend: CM - Current Mission
NM - New Mission

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1994 PRESIDENT'S BUDGET
INSTALLATION INDEX


| INSTALLATION | HOST COMMAND | STATE/COUNTRY | PAGE |
|---|---|---|---|
| ALTUS AFB | AMC | OKLAHOMA | 376 |
| ANDERSEN AFB | PAF | GUAM | 559 |
| ANDREWS AFB | AMC | MARYLAND | 242 |
| ANTIGUA AAF | SPC | ANTIGUA | 544 |
| ARNOLD AFB | MTC | TENNESSEE | 416 |
| ASCENSION AAF | SPC | ASCENSION ISLAND | 545 |
| BARKSDALE AFB | ACC | LOUISIANA | 238 |
| BOLLING AFB | ADW | DISTRICT OF COLUMBIA | 141 |
| BUCKLEY ANGB | NGB | COLORADO | 111 |
| CANNON AFB | ACC | NEW MEXICO | 311 |
| CAPE CANAVERAL AFS | SPC | FLORIDA | 145 |
| CAPE ROMANZOF LRRS | PAF | ALASKA | 20 |
| CHARLESTON AFB | AMC | SOUTH CAROLINA | 404 |
| CHEYENNE MT AFB | SPC | COLORADO | 112 |
| CLASSIFIED LOCATIONS | LEE | INSIDE THE U.S. | 108 |
| CLASSIFIED LOCATIONS | LEE | OUTSIDE THE U.S. | 549 |
| COLUMBUS AFB | ATC | MISSISSIPPI | 256 |
| DAVIS-MONTHAN AFB | ACC | ARIZONA | 53 |
| DIEGO GARCIA AB | PAF | INDIAN OCEAN | 563 |
| DOVER AFB | AMC | DELAWARE | 134 |
| DYESS AFB | ACC | TEXAS | 427 |
| EDWARDS AFB | MTC | CALIFORNIA | 74 |
| EGLIN AFB | MTC | FLORIDA | 159 |
| EGLIN AUXILIARY #9 | AMC | FLORIDA | 175 |
| EIELSON AFB | PAF | ALASKA | 24 |
| ELLSWORTH AFB | ACC | SOUTH DAKOTA | 415 |
| ELMENDORF AFB | PAF | ALASKA | 31 |
| F.E. WARREN AFB | ACC | WYOMING | 534 |
| FAIRCHILD AFB | ACC | WASHINGTON | 523 |
| FORT GEORGE G. MEADE | LEE | MARYLAND | 252 |
| GOODFELLOW AFB | ATC | TEXAS | 431 |
| GRAND FORKS AFB | ACC | NORTH DAKOTA | 352 |
| GUNTER ANNEX | AUN | ALABAMA | 2 |
| HICKAM AFB | PAF | HAWAII | 219 |
| HILL AFB | MTC | UTAH | 502 |
| HOLLOMAN AFB | ACC | NEW MEXICO | 318 |
| INCIRLIK AB | AFE | TURKEY | 570 |

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1994 PRESIDENT'S BUDGET
INSTALLATION INDEX


| INSTALLATION | HOST COMMAND | STATE/COUNTRY | PAGE |
|---|---|---|---|
| KAENA POINT STS | PAF | HAWAII | 226 |
| KEESLER AFB | ATC | MISSISSIPPI | 260 |
| KELLY AFB | MTC | TEXAS | 435 |
| KIRTLAND AFB | AMC | NEW MEXICO | 324 |
| LACKLAND AFB | ATC | TEXAS | 458 |
| LACKLAND ANNEX | ATC | TEXAS | 473 |
| LANGLEY AFB | ACC | VIRGINIA | 510 |
| LAUGHLIN AFB | ATC | TEXAS | 477 |
| LITTLE ROCK AFB | AMC | ARKANSAS | 65 |
| LUKE AFB | ACC | ARIZONA | 54 |
| MALMSTROM AFB | AMC | MONTANA | 292 |
| MAXWELL AFB | AUN | ALABAMA | 5 |
| MCCHORD AFB | AMC | WASHINGTON | 527 |
| MCCLELLAN AFB | MTC | CALIFORNIA | 81 |
| MCCONNELL AFB | ACC | KANSAS | 237 |
| MEMPHIS NAS | NAV | TENNESSEE | 420 |
| MINOT AFB | ACC | NORTH DAKOTA | 356 |
| NAVAJO ARMY DEPOT | MTC | ARIZONA | 61 |
| NELLIS AFB | ACC | NEVADA | 307 |
| OFFUTT AFB | ACC | NEBRASKA | 300 |
| PATRICK AFB | SPC | FLORIDA | 185 |
| PETERSON AFB | SPC | COLORADO | 116 |
| POPE AFB | ACC | NORTH CAROLINA | 341 |
| RAF MILDENHALL | AFE | UNITED KINGDOM | 574 |
| RAMSTEIN AB | AFE | GERMANY | 552 |
| RANDOLPH AFB | ATC | TEXAS | 487 |
| REESE AFB | ATC | TEXAS | 494 |
| ROBINS AFB | ACC | GEORGIA | 196 |
| SCOTT AFB | AMC | ILLINOIS | 230 |
| SEYMOUR-JOHNSON AFB | ACC | NORTH CAROLINA | 348 |
| SHAW AFB | ACC | SOUTH CAROLINA | 408 |
| SHEPPARD AFB | ATC | TEXAS | 495 |
| THULE AB | SPC | GREENLAND | 556 |
| THUMRAIT AB | ACC | OMAN | 567 |
| TINKER AFB | MTC | OKLAHOMA | 383 |
| TRAVIS AFB | AMC | CALIFORNIA | 84 |
| TYNDALL AFB | ACC | FLORIDA | 192 |

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1994 PRESIDENT'S BUDGET
INSTALLATION INDEX


| INSTALLATION | HOST COMMAND | STATE/COUNTRY | PAGE |
|---|---|---|---|
| USAF ACADEMY | AFA | COLORADO | 127 |
| VANCE AFB | ATC | OKLAHOMA | 397 |
| VANDENBERG AFB | SPC | CALIFORNIA | 91 |
| VARIOUS LOCATIONS | LEE | VARIOUS LOCATIONS | 577 |
| WHITEMAN AFB | ACC | MISSOURI | 267 |
| WRIGHT-PATTERSON AFB | MTC | OHIO | 360 |

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1994

## ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over $2 million and the results are addressed in the individual DD Forms 1391. Life cycle economic analyses or justifications why an economic analysis was not warranted will be submitted directly to the OSD staff at their request.

## DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law, 90-480, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

## ENVIRONMENTAL STATEMENT

In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 1995 Military Construction Program.

## EVALUATION OF FLOODPLAINS AND WETLANDS

All projects in the program have been evaluated for compliance with Executive Orders 11988, Floodplain Management, and 11990, Protection of Wetlands, and the Floodplain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the rick of flood loss, minimize the impact of floods on human safety, health and welfare, preserve and enhance the natural and beneficial values of wetlands and minimize the destruction, loss or degradation of wetlands.

## ENVIRONMENTAL COMPLIANCE

The FY 94 MILCON request includes $140.8 million for requirements necessary to correct current environmental noncompliance situations and to prevent future noncompliance. The request is the result of an intense effort to correct environmental concerns existing in five major infrastructure areas: wastewater treatment systems, corrosion control systems, hydrant refueling systems, underground storage tank systems, and live fire training facilities.

FY 1994

CONGRESSIONAL REPORTING REQUIREMENTS

1. STATEMENTS ON NATO ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justifications.

2. STATEMENTS ON COMPLIANCE WITH CONSTRUCTION MANUAL 4210.1M

These are in response to the requirement in the FY 1988 Senate Appropriations Conference Report, 100-498, page 1003, and are included in each project justification.

3. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation which follows the project on the listing at Tab D identifies each project as new or current mission. Additionally, each justification in Block 11 indicates whether the project supports a new or current mission.

4. RESOLUTION TRUST CORPORATION ASSETS

Senate Armed Services Committee Report 101-384, dated 20 July 1990, on the National Defense Authorization Act for FY 91 requested the Department to screen Resolution Trust Corporation assets to determine if proposed construction projects could be more economically met through the purchase of existing assets held by the Resolution Trust Corporation. The FY 94 Military Construction and Family Housing programs were compared to the current real estate asset inventory published by the Resolution Trust Corporation. It was determined and the Department certifies that no assets exist that can be economically used in lieu of the FY 94 projects requested.

THIRD PARTY FINANCING

| | |
|---|---|
| Test of long-term facilities contracts | NONE |

FY 1994
NON-MILCON CONSTRUCTION

This information is being provided in response to the requirement on page 1006 of the FY 1988 Appropriations Conference Report 100-498. Information on appropriations other then MILCON are on the following pages:


| PROGRAM | PAGE NUMBER |
|---|---|
| Research and Development (RDT&E) | F-5 |
| Operations and Maintenance (O&M) | F-8 |

NON-MILCON FUNDING

RESEARCH, DEVELOPMENT, TEST, AND EVALUATION (RDT&E) FUNDING
Refer to RDT&E Descriptive Summary Documentation for Detail

| PE | Type Effort | FY | ($000) |
|---|---|---|---|
| Various | Equipment Installation - RDT&E | FY 1992 | $2,922 |

NON-MILCON FUNDING

RESEARCH, DEVELOPMENT, TEST, AND EVALUATION (RDT&E) FUNDING
Refer to RDT&E Descriptive Summary Documentation for Detail

| PE | Type Effort | FY | ($000) |
|---|---|---|---|
| 34111F | Construction per 10 U.S.C. 2353 | FY 1993 | $17,000 |
| Various | Equipment Installation - RDT&E | FY 1993 | $ 1,408 |

NON-MILCON FUNDING

RESEARCH, DEVELOPMENT, TEST, AND EVALUATION (RDT&E) FUNDING
Refer to RDT&E Descriptive Summary Documentation for Detail

| PE | Type Effort | FY | ($000) |
|---|---|---|---|
| 65876F | Minor Construction - RDT&E | FY 1994 | $7,739 |
| 34111F | Construction per 10 U.S.C. 2353 | FY 1994 | $24,900 |
| Various | Equipment Installation - RDT&E | FY 1994 | $16,190 |

REAL PROPERTY MAINTENANCE
ACTIVE AIR FORCE
($ IN MILLIONS)

| | FY 1992 ACTUAL | FY 1993 ESTIMATE | FY 1994 ESTIMATE |
|---|---|---|---|
| Appropriation Summary: | | | |
| Operation and Maintenance, | 1,273.5 | 792.0 | 1,283.8 |

Description of Operations Financed: Provides resources for in-service and contractual accomplishment of maintenance and repair work on buildings, structures, warehouses, roadways, runways and aprons, missile sites, railway trackage, utility plants and distribution systems. Also includes minor construction to erect, install or assemble a new facility or to expand, alter or convert an existing facility when costs of such minor construction do not exceed $300 thousand for each project.

| | | | |
|---|---|---|---|
| **PROGRAM DATA** | | | |
| Maintenance and Repair of Real Property | 1,137.8 | 734.3 | 969.3 |
| Minor Construction | 135.7 | 13.1 | 79.4 |
| AMC DBOF | | 44.6 | 235.1 |
| Backlog of Maintenance and Repair (BMAR) | 1,599.5 | 2,033.9 | 2,338.9 |
| **PERSONNEL DATA** | | | |
| Active Air Force Personnel | | | |
| Officer | 822 | 593 | 504 |
| Enlisted | 15,779 | 10,996 | 9,766 |
| Total | 16,601 | 11,589 | 10,270 |
| Civilian Personnel | | | |
| U.S. Direct Hires | 10,205 | 9,513 | 9,343 |
| Foreign Direct Hires | 484 | 322 | 330 |
| Total Direct Hires | 10,689 | 9,835 | 9,673 |
| Foreign National Indirect Hires | 1,301 | 1,552 | 1,449 |
| Total | 11,990 | 11,387 | 11,122 |

Discussion: The FY 1994 program includes a pricing increase of $16.2M. The following major program changes are as follows: The FY 1993 Appropriation Act denied our requested funding transfer to MILCON for major repair and minor construction and established the Real Property Maintenance, Defense Account. This budget requests we again fund those programs in O&M ($+578.3M). However, funding for the Air Force's Real Property Maintenance (RPM) program continues to decline at a rate faster than the rate of force structure drawdowns and installation closures/realignments ($-107.9M). The FY 1993 RPM estimate which only funds 44.6% of requirements results in BMAR growth of $434M. In FY 1994 we further reduced funding by $25.4M due to fiscal austerity. Any further reductions will accelerate facility deterioration to an unacceptable level and begin to seriously impact mission readiness and combat capability. Also, we anticipate increased burdensharing from our allies which will reduce our needs ($-24.1M). Finally, our FY 1994 request reflects increased customer funding to reimburse AMC DBOF, established in FY 1993, for Military Personnel ($+70.9M).

## APPROPRIATION LANGUAGE

### MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property for the Air Force as currently authorized by law $906,378,000 to remain available until September 30, 1998: Provided, that of this amount, not to exceed $63,180,000, shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefor.

Military Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY



| Identification code 87-3300-0-1-051 | Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1992 actual | 1993 est. | 1994 est. | 1995 est. |
|---|---|---|---|---|
| Program by activities: | | | | |
| Direct program: | | | | |
| 00.0101 Major construction | 1,032,398 | 618,780 | 836,354 | 726,383 |
| 00.0201 Minor construction | 11,500 | 7,000 | 8,844 | 7,752 |
| 00.0301 Planning | 69,900 | 92,000 | 63,180 | 64,812 |
| 00.0401 Supporting activities | 6,000 | | | |
| 00.9101 Total direct program | 1,119,798 | 717,780 | 906,378 | 798,947 |
| 01.0101 Reimbursable program | 1,927 | 508 | 500 | 518 |
| 10.0001 Total | 1,121,723 | 718,288 | 906,878 | 799,465 |
| Financing: | | | | |
| Offsetting collections from: | | | | |
| 11.0001 Federal funds(-) | -1,927 | -908 | -500 | -518 |
| 17.0001 Recovery of prior year obligations | | | | |
| Unobligated balance available, start of year: | | | | |
| 21.4002 For completion of prior year budget plans | | | | |
| 21.4003 Available to finance new budget plans | -94,400 | | | |
| 21.4009 Reprograming from/to prior year budget plans | -38,408 | | | |
| 22.0001 Unobligated balance transferred to other accounts | -22,642 | | | |
| Unobligated balance available, end of year: | | | | |
| 24.4002 For completion of prior year budget plans | | | | |
| 25.0001 Unobligated balance expiring | 8,838 | | | |
| 40.0001 Budget authority (Appropriation) | 973,184 | 717,780 | 906,378 | 798,947 |
| Relation of obligations to outlays: | | | | |
| 71.0001 Obligations incurred | | | | |
| 72.4001 Obligated balance, start of year | | | | |
| 74.4001 Obligated balance, end of year | | | | |
| 77.0001 Adjustments in expired accounts (net) | | | | |
| 78.0001 Adjustments in unexpired accounts | | | | |
| 90.0001 Outlays (net) | | | | |

Military Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY



| Identification code 87-3300-0-1-051 | | Obligations | | | |
|---|---|---|---|---|---|
| | | 1992 actual | 1993 est. | 1994 est. | 1995 est. |
| | Program by activities: | | | | |
| | Direct program: | | | | |
| 00.0101 | Major construction | 858,118 | 1,029,788 | 1,034,493 | 861,336 |
| 00.0201 | Minor construction | 10,558 | 10,997 | 7,332 | 9,622 |
| 00.0301 | Planning | 78,980 | 106,710 | 78,959 | 74,085 |
| 00.0401 | Supporting activities | 1,438 | 1,827 | 885 | 492 |
| 00.9101 | Total direct program | 947,094 | 1,149,100 | 1,121,489 | 945,535 |
| 01.0101 | Reimbursable program | 1,927 | 508 | 500 | 518 |
| 10.0001 | Total | 949,021 | 1,149,608 | 1,121,989 | 946,053 |
| | Financing: | | | | |
| | Offsetting collections from: | | | | |
| 11.0001 | Federal funds(-) | -1,927 | -508 | -500 | -518 |
| 17.0001 | Recovery of prior year obligations | -12,938 | | | |
| | Unobligated balance available, start of year: | | | | |
| 21.4002 | For completion of prior year budget plans | -1,154,138 | -1,303,389 | -872,049 | -656,958 |
| 21.4003 | Available to finance new budget plans | -94,400 | | | |
| 21.4009 | Reprograming from/to prior year budget plans | | | | |
| 22.0001 | Unobligated balance transferred to other accounts | -22,842 | | | |
| | Unobligated balance available, end of year: | | | | |
| 24.4002 | For completion of prior year budget plans | 1,303,389 | 872,049 | 858,958 | 510,370 |
| 25.0001 | Unobligated balance expiring | 8,838 | | | |
| 40.0001 | Budget authority (Appropriation) | 973,184 | 717,780 | 908,378 | 798,947 |
| | Relation of obligations to outlays: | | | | |
| 71.0001 | Obligations incurred | 947,094 | 1,149,100 | 1,121,489 | 945,535 |
| 72.4001 | Obligated balance, start of year | 846,883 | 898,841 | 933,428 | 982,926 |
| 74.4001 | Obligated balance, end of year | -898,841 | -933,428 | -982,928 | -932,606 |
| 77.0001 | Adjustments in expired accounts (net) | 13,475 | | | |
| 78.0001 | Adjustments in unexpired accounts | -12,936 | | | |
| 90.0001 | Outlays (net) | 897,675 | 1,114,513 | 1,071,971 | 995,855 |

Military Construction, Air Force
Object Classification (in Thousands of dollars) SUMMARY



| Identification code 57-3300-0-1-051 | 1992 actual | 1993 est. | 1994 est. | 1995 est. |
|---|---|---|---|---|
| Direct obligations: | | | | |
| 132.001 Land and structures | 181,581 | 126,085 | 152,339 | 190,068 |
| 199.001 Total Direct obligations | 181,581 | 126,085 | 152,339 | 190,068 |
| Reimbursable obligations: | | | | |
| 232.001 Land and structures | 1,927 | 508 | 500 | 518 |
| 299.001 Total Reimbursable obligations | 1,927 | 508 | 500 | 518 |
| Allocation Accounts | | | | |
| Other services: | | | | |
| 325.204 Other | 81,137 | 129,434 | 150,252 | 143,741 |
| 332.001 Land and structures | 884,396 | 893,581 | 818,878 | 611,726 |
| 399.001 Total Allocation Accounts | 785,533 | 1,023,015 | 969,130 | 755,467 |
| 999.001 Total obligations | 949,021 | 1,149,608 | 1,121,969 | 946,053 |
| Obligations are distributed as follows: | | | | |
| Defense-Military:Army | 582,747 | 705,860 | 688,889 | 580,877 |
| Defense-Military:Navy | 127,494 | 154,047 | 150,344 | 126,770 |
| Defense-Military:Air Force | 229,890 | 278,205 | 271,517 | 228,945 |
| Department of Transportation | 9,090 | 11,498 | 11,219 | 9,461 |
| Total Obligations | 949,021 | 1,149,608 | 1,121,969 | 946,053 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA | AIR UNIVERSITY | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 235 | 1120 | 710 | 1 | 274 | 22 | 4 | 34 | 23 | 2,423 |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 368) | |
| b. Inventory Total As Of: (30 SEP 92) | 84,990 |
| c. Authorization Not Yet In Inventory: | 31,960 |
| d. Authorization Requested In This Program: | 4,680 |
| e. Authorization Included In Following Program: (FY 1995) | 13,700 |
| f. Planned In Next Four Program Years: | 9,500 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 144,830 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 442-257 | HAZARDOUS WASTE ACCUMULATION FACILITY | 8,500 SF | 310 | OCT 92 | MAY 93 |
| 740-884 | CHILD DEVELOPMENT CENTER | 23,000 SF | 2,700 | SEP 92 | SEP 93 |
| 811-147 | EMERGENCY POWER GENERATOR PLANT | 3,000 KW | 1,200 | JUN 92 | APR 93 |
| 831-000 | SPILL CONTAINMENT CONTROLS | 600 SF | 470 | OCT 92 | MAY 93 |
| | | TOTAL: | 4,680 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 610-281 | COMPUTER SYSTEMS AND TRAINING FACILITY | 66,500 SF | 7,000 |
| 610-711 | RENOVATE COMPUTER OPERATIONS FACILITY | 115,985 SF | 3,700 |
| 850-000 | UPGRADE UTILITY SYSTEMS, PHASE I | LS | 3,000 |
| | | TOTAL: | 13,700 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 740-674 | PHYSICAL FITNESS CENTER | 28,200 SF | 5,000 |
| 812-223 | IMPROVE PRIMARY OVERHEAD DIST LINE | LS | 3,000 |
| 842-245 | UPGRADE WATER DISTRIBUTION SYSTEM | 20,000 LF | 1,500 |

10. Mission or Major Functions: USAF Extension Course Institute; Air Force Senior Noncommissioned Officer Academy; Air Force Materiel Command Management Center; and Air Force Communications Command Standard Systems Center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 3,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 740-884 | JUBJ943076 | 2,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 23,000 | 80 | 1,840 |
| SUPPORTING FACILITIES | | | | 590 |
| UTILITIES | LS | | | ( 230) |
| PAVEMENTS | LS | | | ( 70) |
| SITE IMPROVEMENTS | LS | | | ( 130) |
| COMMUNICATIONS SUPPORT | LS | | | ( 60) |
| DEMOLITION | LS | | | ( 100) |
| SUBTOTAL | | | | 2,430 |
| CONTINGENCY (5%) | | | | 122 |
| TOTAL CONTRACT COST | | | | 2,552 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 153 |
| TOTAL REQUEST | | | | 2,705 |
| TOTAL REQUEST (ROUNDED) | | | | 2,700 |

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, structural steel frame and roof system. Includes multipurpose rooms for different age groups, management support space, storage, kitchen, activity and isolation rooms and other necessary support spaces. Demolition of existing substandard facility.
Air Conditioning: 100 Tons.

11. REQUIREMENT: 23,000 SF ADEQUATE: 0 SUBSTANDARD: 19,732 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: A facility to provide for the care and development of a wide range of age groups of children of personnel assigned to this base. This care must be provided during regular duty hours and in support of after-hours mission requirements. A reliable, well managed, healthy and affordable center for the care of children aged six weeks through twelve years is essential. The requirements are based on 228 children, which was derived from the FY97 force structure.
CURRENT SITUATION: The existing child development center is too small, poorly arranged for safe and effective child development support, and in substandard conditions not suitable for economic renovation. Storage space is inadequate; the functional arrangement is poor; and many rooms lack exits to the outside. More rooms are needed in order to meet required adult-to-child ratios per room. School age children are in the same facility as six-week to three-year-old children, which is against Air Force regulations. A better equipped kitchen is needed to meet health standards, and more bathroom facilities are needed to properly care for infants. The facility currently is filled to capacity with 80 children between the ages of six weeks and three years. Sixty preschool children are presently without a facility as the preschool facility was declared

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | JUBJ943076 |

unusable in a recent DoD inspection. Forty children are currently on the waiting list. Home care is used to supplement the child care program, but is filled to capacity. Day care facilities in the area are triple the cost of the base program and are too expensive for the young enlisted personnel.

IMPACT IF NOT PROVIDED: Eligible patrons will continue to be denied service. Personnel will be required to use more expensive off-base programs. This results in an additional hardship on military and civilian parents and is a career detractor.

ADDITIONAL: This project will replace the existing child development center and meets the criteria specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | JUBJ943076 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 15 |
| (d) Date Design Complete | 93 SEP 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 162 |
| (b) All Other Design Costs | 81 |
| (c) Total | 243 |
| (d) Contract | 162 |
| (e) In-house | 81 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA | EMERGENCY POWER GENERATOR PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 811-147 | JUBJ943073 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| EMERGENCY POWER GENERATOR PLANT | | 1 | | |
| SUPPORTING FACILITIES | | | | 1,080 |
| DIESEL GENERATOR SETS INSTALLED | EA | 3 | 360,000 | (1,080) |
| SUBTOTAL | | | | 1,080 |
| CONTINGENCY (5%) | | | | 54 |
| TOTAL CONTRACT COST | | | | 1,134 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 68 |
| TOTAL REQUEST | | | | 1,202 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Install three 1000 KW generators in the power plant area of Bldg 857. This work includes all associated cabling, connections, piping, etc., to provide a fully operational emergency backup power system.

11. REQUIREMENT: 3,000 KW ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Procure and install three 1000 KW generators. (New Mission)
REQUIREMENT: Backup generators are required to sustain computer operations in support of aircraft readiness for the southeastern United States air defense during commercial power outages. DoD's Defense Management Report Decision 924 requires the Air Force to consolidate all standard base level computer functions from CONUS bases into five newly formed Regional Processing Centers. Located at Gunter Annex, the first center supports 19 active duty bases and 20 Air National Guard/Air Force Reserve units, totaling approximately 10,000 users. The center must be operational 24 hours per day and seven days per week.
CURRENT SITUATION: DMRD 924 was approved in Feb 1991. The Air Force began moving the base computers to the Gunter Regionalized Processing Center during the summer of 1991. The computers are supported by an uninterruptable power supply (UPS) that conditions the power fed to the computers and provides up to 15 minutes of reserve battery power during commercial power outages. The Air Force will lease backup diesel generators to sustain the Center's operation during extended power outages as an interim measure until this project is approved. Leasing of these generators began in Jan 1992.
IMPACT IF NOT PROVIDED: $166,000 is spent annually from scarce operational and maintenance resources to continue the lease of the generators.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| EMERGENCY POWER GENERATOR PLANT | JUBJ943073 |

ADDITIONAL: An economic analysis determined that it is more cost effective to purchase the generators rather than continue their lease. The discounted payback period to purchase generators vice continuing their lease is 4.4 years. There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| EMERGENCY POWER GENERATOR PLANT | JUBJ943073 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 03 |
| (b) Percent Complete as of Jan 93 | 40% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 APR 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 48 |
| (b) All Other Design Costs | 33 |
| (c) Total | 81 |
| (d) Contract | |
| (e) In-house | 81 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | AIR UNIVERSITY | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 973 | 1600 | 1466 | 1556 | 46 | 14 | | | | 5,655 |
| b. End FY 1998 | 1202 | 2731 | 2306 | 1557 | 457 | 36 | 4 | 34 | 23 | 8,350 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,528) | |
| b. Inventory Total As Of: (30 SEP 92) | 196,253 |
| c. Authorization Not Yet In Inventory: | 23,320 |
| d. Authorization Requested In This Program: | 25,370 |
| e. Authorization Included In Following Program: (FY 1995) | 13,100 |
| f. Planned In Next Four Program Years: | 73,200 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 331,243 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL | STATUS |
|---|---|---|---|---|---|---|---|
| 111-111 | EXTEND RUNWAY/UPGRADE | 16,700 | SY | 9,200 | AUG 92 | JUL 93 | |
| 112-211 | TAXIWAY/RAMP | 111,200 | SY | 3,800 | AUG 92 | JUN 93 | |
| 171-851 | AIR FORCE QUALITY CENTER | 45,000 | SF | 4,650 | NOV 92 | SEP 93 | |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 53 | TK | 1,700 | OCT 92 | MAY 93 | |
| 831-000 | SPILL CONTAINMENT CONTROLS | | LS | 970 | OCT 92 | MAY 93 | |
| 850-000 | UPGRADE UTILITY SYSTEMS, PHASE I | | LS | 5,050 | AUG 92 | JUN 93 | |
| | | TOTAL: | | 25,370 | | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 724-417 | ALTER DORMITORY | 82 | PN | 3,500 |
| 724-417 | STUDENT DORMITORIES, PHASE I | 200 | PN | 9,600 |
| | TOTAL: | | | 13,100 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 112-211 | REPAIR TAXIWAY | | LS | 3,500 |
| 113-321 | REPAIR APRONS | | LS | 4,000 |
| 141-453 | RENOVATE BASE OPERATIONS | 22,607 | SF | 3,300 |
| 724-417 | VISITING OFFICERS QUARTERS | 200 | PN | 9,800 |
| 842-245 | UPGRADE WATER DISTRIBUTION SYSTEM | 35,000 | LF | 2,800 |

10. Mission or Major Functions: Headquarters Air University; Air War College; Air Command and Staff College; Squadron Officers School; Center for Aerospace Doctrine, Research, and Education; Air Force Quality Center; Ira C. Eaker Center for Professional Development; Air Force Historical Research Agency; Headquarters Air Force Reserve Officer Training Corps; Headquarters Civil Air Patrol; Community College of the Air Force; an Air Force Reserve airlift group (C-130 aircraft); and Air Mobility Command airlift squadron (C-21 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 5,200 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No 5

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | EXTEND RUNWAY/UPGRADE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 111-111 | PNQS963107 | 9,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| EXTEND RUNWAY/UPGRADE | SY | 16,700 | 66 | 1,102 |
| SUPPORTING FACILITIES | | | | 6,765 |
| UTILITIES/AIRFIELD LIGHTING SYSTEMS | LS | | | ( 380) |
| SITE IMPROVEMENTS | LS | | | (1,160) |
| PAVEMENTS | LS | | | ( 95) |
| SITE WORK FOR AIRFIELDS | LS | | | ( 20) |
| AIRFIELD PAVEMENTS | LS | | | ( 985) |
| MISC AIRFIELD WORK | LS | | | ( 50) |
| DEMOLISH PAVEMENTS | LS | | | ( 190) |
| OTHER SUPPORTING FACILITIES | LS | | | (3,885) |
| SUBTOTAL | | | | 7,867 |
| CONTINGENCY (10%) | | | | 787 |
| TOTAL CONTRACT COST | | | | 8,654 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 519 |
| TOTAL REQUEST | | | | 9,173 |
| TOTAL REQUEST (ROUNDED) | | | | 9,200 |

10. Description of Proposed Construction: Extend existing runway 1,000 ft. Construct a 500 ft overrun, and parallel taxiway leading to new end of runway. Repair runway pavement, remove abandoned pavement, modify and paint runway and taxiway markings. Includes the extension of the instrument landing system, and relocation of the existing perimeter road, earthwork, aircraft arresting system, and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Extend the primary runway and construct an overrun and parallel taxiway. (Current Mission)

REQUIREMENT: The 1,000 foot runway extension would provide required emergency rollout for base and transient aircraft experiencing a major malfunction during takeoff or landing. All fighter and trainer aircraft using Maxwell AFB require waivers to flying regulations. This airfield is also an emergency recovery runway for the 187 FG (F-16) Air National Guard and commercial aircraft. Base mobility tasking will markedly increase with the recent change in Standards Systems Center DOC tasking. Air Mobility Command (AMC) cannot fully deploy from Maxwell AFB under OPLAN 410. It will also provide additional aircraft beddown options which are not currently available.

CURRENT SITUATION: Special flights which are associated with Air University have to land and depart from the commercial airport across town due to insufficient runway. Current airfield conditions require AMC to use ground transportation when deploying personnel/equipment.

IMPACT IF NOT PROVIDED: The existing runway length will continue to be a serious safety hazard to transient or base aircraft. AMC will continue to use ground transportion and the runways at Ft Benning and Ft Rucker for deployment, as they did during Desert Storm, rather than deploy with

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| EXTEND RUNWAY/UPGRADE | PNQS963107 |

C-141s from Maxwell Air Force Base.
ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, a full economic analysis was not needed or performed. A certificate of exemption has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements"

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| EXTEND RUNWAY/UPGRADE | PNQS963107 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 MAY 19 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 93 JAN 31 |
| (d) Date Design Complete | | 93 NOV 15 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 260 |
| (b) All Other Design Costs | | 90 |
| (c) Total | | 350 |
| (d) Contract | | |
| (e) In-house | | 350 |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | TAXIWAY/RAMP |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 112-211 | PNQS903000 | 3,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| TAXIWAY/RAMP | SY | 29,480 | 108 | 3,253 |
| RESEAL JOINTS | LS | | | ( 352) |
| REPLACE SLABS | LS | | | (1,454) |
| PAINT AIRFIELD MARKINGS | LS | | | ( 267) |
| RESEAL AND OVERLAY TAXIWAY | LS | | | ( 730) |
| DEMOLITION | LS | | | ( 450) |
| SUBTOTAL | | | | 3,253 |
| CONTINGENCY (10%) | | | | 325 |
| TOTAL CONTRACT COST | | | | 3,578 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 215 |
| TOTAL REQUEST | | | | 3,793 |
| TOTAL REQUEST (ROUNDED) | | | | 3,800 |

10. Description of Proposed Construction: Replace backer rod and reseal concrete joints. Replace eighty concrete slabs on the parking apron and apron access. Replace inlet grates. Reseal cracks, water blast, paint, overlay the runway, taxiway and parking apron. Demolish abandoned taxiway.

11. REQUIREMENT: As required.

PROJECT: Repair the taxiway, runway, parking apron and apron access. (Current Mission)

REQUIREMENT: A runway, taxiway and parking apron that has a smooth, static, maintainable surface. The airfield is required to accommodate C-22, C-135, C-141 and 727 aircraft.

CURRENT SITUATION: The joint sealer in many pavement joints has oxidized and separated, leaving the backer rod free to exit the joint and to be ingested through a jet engine. Many slabs are shattered, inlet grates are broken, and taxiway surfaces are rough. Incompressable particles in the joints are causing the pavement to "grow". Loaded slabs are pumping and causing subgrade degradation. Weight restrictions imposed by the Air Field Manager prohibit C-141, C-135, and C-22 aircraft from landing and result in diversion of air traffic to non-Air Force facilities.

IMPACT IF NOT PROVIDED: A backer rod ingested through an aircraft engine would result in the loss of that engine. Should rubber be allowed to accumulate on the runway, a landing aircraft could skid off the runway, resulting in loss of or damage to the aircraft. Cracks will continue to deteriorate and produce Foreign Object Damage (FOD) to the fuselage, tires, and wings of aircraft. Water underneath the slab causes pumping that further deteriorates the subgrade and slab. Accumulated damage may result in airfield closure at Maxwell.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TAXIWAY/RAMP | PNQS903000 |

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, a full economic analysis was not needed or performed. A certificate of exemption has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TAXIWAY/RAMP | PNQS903000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 13 |
| (b) Percent Complete as of Jan 93 | 40% |
| (c) Date 35% Designed | 92 OCT 23 |
| (d) Date Design Complete | 93 JUN 23 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 234 |
| (b) All Other Design Costs | 117 |
| (c) Total | 351 |
| (d) Contract | 234 |
| (e) In-house | 117 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | AIR FORCE QUALITY CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 171-851 | PNQS913012 | 4,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIR FORCE QUALITY CENTER | SF | 45,000 | 78 | 3,510 |
| SUPPORTING FACILITIES | | | | 680 |
| UTILITIES | LS | | | ( 150) |
| SITE IMPROVEMENTS | LS | | | ( 150) |
| PAVEMENTS | LS | | | ( 150) |
| DEMOLITION | LS | | | ( 230) |
| SUBTOTAL | | | | 4,190 |
| CONTINGENCY (5%) | | | | 210 |
| TOTAL CONTRACT COST | | | | 4,400 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 264 |
| TOTAL REQUEST | | | | 4,664 |
| TOTAL REQUEST (ROUNDED) | | | | 4,650 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, roof, fire protection system, utilities, and necessary support. Building includes classrooms, seminar rooms, auditoriums, academic offices, and administrative support areas. Demolition of three WW II vintage buildings. Site improvements.
Air Conditioning: 325 Tons.

11. REQUIREMENT: 148,502 SF ADEQUATE: 0 SUBSTANDARD: 166,336 SF
PROJECT: Construct Air Force Quality Center (AFQC) facility. (Current Mission)
REQUIREMENT: An adequately sized facility to house the Air Force Quality Center (AFQC), one school of the Center for Professional Development (CPD), and the USAF Chaplain Resource Board. The AFQC provides commanders and their organizations with concepts, methods, tools and advice for attaining a total quality culture. It also serves as a clearing house for total quality related literature and information. The CPD consists of eight schools currently offering over 57 separate Professional Continuing Education courses for nearly 4,000 Air Force, DoD, and other government agency and international officer students. In addition, the CPD is the home of the USAF Chaplain Resource Board, the Enlisted PME Support Center, and two supporting directorates. The Chaplain Resource Board is an extension of the Chaplain Headquarters. The AFQC and CPD programs offer similar classroom instruction. Combining the CPD school with the AFQC allows the shared use of common spaces, auditorium and seminar rooms and reduces the overall project requirements.
CURRENT SITUATION: The AFQC requires room for administration and classrooms. The CPD consists of the USAF Chaplain Resource Board and

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MAXWELL AIR FORCE BASE, ALABAMA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| AIR FORCE QUALITY CENTER | | PNQS913012 |

eight schools offering over 50 separate courses for nearly 5,000 military and civilian employees and international officer students. These functions currently are located in nine buildings on Maxwell and Gunter. Only one of these buildings was constructed for classrooms, and their scattered arrangement hampers CPD's educational effectiveness. Adequate classrooms are vacant in some facilities while other classrooms are crowded or inappropriate for the classes being taught.

IMPACT IF NOT PROVIDED: Units displaced by AFQC will lose time, effort, and efficiency through separation of resources and individual classrooms. CPD will continue to face mission constraints and inefficient distribution of space. Major repairs to the structural and mechanical systems of old facilities and high utility costs will be required to allow classes to continue as scheduled. The Chaplain School will be unable to meet new demands associated with greater religious diversity in the USAF. The International Officer School must use available auditorium and seminar rooms on the Academic Circle, separating international students from staff support and the language laboratory.

ADDITIONAL: This project includes disposal of a number of substandard facilities: demolition of 24,315 SF in two buildings that currently house 14% of the CPD classrooms and are scattered throughout Maxwell and Gunter, and demolition of 46,259 SF in a WW II hangar located on the site for this project. An economic analysis was prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the present value and benefits of the respective alternatives, new construction was determined to be more cost-effective over the life of the project. This project meets the criteria specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIR FORCE QUALITY CENTER | PNQS913012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 10 |
| (d) Date Design Complete | 93 SEP 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 288 |
| (b) All Other Design Costs | 264 |
| (c) Total | 552 |
| (d) Contract | 552 |
| (e) In-house | |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.56U | 411-135 | PNQS933071 | 1,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,456 |
| REMOVE TANKS | EA | 35 | 9,940 | ( 348) |
| REPLACE/RETROFIT | EA | 16 | 69,250 | (1,108) |
| SUBTOTAL | | | | 1,456 |
| CONTINGENCY (10%) | | | | 146 |
| TOTAL CONTRACT COST | | | | 1,602 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 96 |
| TOTAL REQUEST | | | | 1,698 |
| TOTAL REQUEST (ROUNDED) | | | | 1,700 |

10. Description of Proposed Construction: Remove and dispose of 35 Underground Storage Tanks (UST). Replace 16 USTs to include new piping. Test and remediate the associated soil as required. Provide and install clean fill soil and restore the tank site to its original condition.

11. REQUIREMENT: As required.

PROJECT: Replace underground fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project to upgrade all underground storage tanks regulated by 40 CFR 280 to new standards by December 1998. The Environmental Protection Agency (EPA) has set standards that require all regulated USTs to have leak detection, corrosion protection, and spill/overflow prevention systems. If USTs are to be replaced, Air Force policy is to replace them with above-ground tanks or to relocate them into underground vaults wherever possible. However, existing underground petroleum product storage tanks that are in good condition may be upgraded in place to bring them into compliance with applicable UST standards.

CURRENT SITUATION: 35 USTs are no longer required because of changes in the procurement of natural gas at the wellhead, eliminating the need for fuel oil. A reduction in the number of emergency generators has further reduced the need for USTs. 16 USTs, used for base fuels and emergency generators, require retrofitting or replacement. The majority of these USTs are constructed of steel and are approximately 20 years old. There exists no cathodic spill/overfill protection.

IMPACT IF NOT PROVIDED: The environmental threat increases each day the existing USTs are not removed and/or retrofitted. In addition, state and Federal laws are becoming more expensive for compliance in the USTs program. Leaking USTs can result in pollution of the environment.

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | PNQS933071 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 161 |
| (b) All Other Design Costs | |
| (c) Total | 161 |
| (d) Contract | |
| (e) In-house | 10 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | UPGRADE UTILITY SYSTEMS, PHASE I |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 850-000 | PNQS892102 | 5,050 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE UTILITY SYSTEMS, PHASE I | LS | | | 2,652 |
| GAS MAINS | LF | 4,800 | 68 | ( 326) |
| SEWER MAINS | LF | 4,400 | 98 | ( 431) |
| PRIMARY ELECTRIC | LF | 2,500 | 68 | ( 170) |
| STEAM MAINS | LF | 5,200 | 175 | ( 910) |
| STORM DRAINS | LF | 4,900 | 78 | ( 382) |
| WATER MAINS | LF | 6,100 | 71 | ( 433) |
| SUPPORTING FACILITIES | | | | 1,675 |
| SIDEWALK REPLACEMENT | LF | 2,600 | 21 | ( 55) |
| ROAD REPLACEMENT | SY | 14,100 | 115 | (1,620) |
| SUBTOTAL | | | | 4,327 |
| CONTINGENCY (10%) | | | | 433 |
| TOTAL CONTRACT COST | | | | 4,760 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 286 |
| TOTAL REQUEST | | | | 5,046 |
| TOTAL REQUEST (ROUNDED) | | | | 5,050 |

10. Description of Proposed Construction: Demolition of the existing pavement, utilities and facilities. Concrete and asphalt pavement, compacted subgrade, signs, signals, sidewalk, curb and gutter, utilities, storm drainage, and striping. Replace steam, gas, water and sewer mains. Install underground electrical.

11. REQUIREMENT: As required.

PROJECT: Upgrade the utility systems, Phase I. (Current Mission)

REQUIREMENT: The sanitary sewer, gas piping, water mains, steam piping (supply and return) are required to be in a safe, repairable, maintainable and environmentally sound condition. A utility system adequate to meet the present and future requirements is needed. The significant underground work will require replacement of streets, curbs, gutters, and some sidewalks. This project is phase 1 of a three-phase project.

CURRENT SITUATION: The utility lines were installed between 1930 and 1940. The sanitary sewer system has cracked and crushed lines, and there are cross-connects between sanitary sewer and storm mains. The cracked lines allow raw sewage to leak into the ground water and storm water runoff to flood the sewage treatmant plant. The raw sewage that enters the storm drains flows into the Alabama River. The gas and water lines may not be isolated due to inoperative valves. The steam lines leak, and the deteriorated insulation results in a constant loss of heat and energy.

IMPACT IF NOT PROVIDED: Although the base has not beem cited to date for non-compliance with environmental regulations, raw sewage will continue to flow into the waterways unless a major upgrade is done to the system. Energy loss from the steam supply and return lines will worsen. Large areas of the base will continue, unnecessarily, to be without gas or water because of inoperative or nonexistant valves. Natural gas in unvalved

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MAXWELL AIR FORCE BASE, ALABAMA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE UTILITY SYSTEMS, PHASE I | | PNQS892102 |

sections has the potential to fuel fires.
ADDITIONAL: This project meets the criteria specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE UTILITY SYSTEMS, PHASE I | PNQS892102 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 AUG 13 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 92 OCT 23 |
| | (d) Date Design Complete | 93 JUN 23 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 312 |
| | (b) All Other Design Costs | 288 |
| | (c) Total | 600 |
| | (d) Contract | |
| | (e) In-house | 600 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION<br>CAPE ROMANZOF LONG RANGE RADAR SITE, ALASKA | 4. COMMAND<br>PACIFIC AIR FORCES | 5. AREA CONST COST INDEX<br>0.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,900) | |
| b. Inventory Total As Of: (30 SEP 92) | 15,556 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 3,350 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 18,906 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 890-151 | REPLACE TRAMWAY SYSTEM | LS | 3,350 | AUG 92 | JUL 93 |
| | | TOTAL: | 3,350 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: An air control group which provides early warning defense.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPE ROMANZOF LONG RANGE RADAR SITE, ALASKA | REPLACE TRAMWAY SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.28.96 | 890-151 | DBWT891003 | 3,350 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE TRAMWAY SYSTEM | LS | | | 3,000 |
| UPPER/LOWER TERMINAL BUILDINGS | LS | | | ( 900) |
| STRUCTURAL TOWERS | LS | | | ( 800) |
| CABLE/TRAM/POWER ASSEMBLY | LS | | | (1,000) |
| DEMOLITION | LS | | | ( 300) |
| SUBTOTAL | | | | 3,000 |
| CONTINGENCY (5%) | | | | 150 |
| TOTAL CONTRACT COST | | | | 3,150 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 205 |
| TOTAL REQUEST | | | | 3,355 |
| TOTAL REQUEST (ROUNDED) | | | | 3,350 |

10. Description of Proposed Construction: Replace the tramway system. Work includes concrete terminal buildings, towers, carriage car, power assembly, cable, controls, and other necessary support. Demolition and disposal of existing system.

11. REQUIREMENT: As required.

PROJECT: Replace tramway system. (Current Mission)

REQUIREMENT: An operable and dependable tram system giving access for personnel and materials from lower to upper camp facilities. The Cape Romanzof site performs the primary mission of radar surveillance for the Alaskan coast, plus is a weather data collection point and serves a drug interdiction role. Access to the upper camp, where operational facilities are located, is vital to performing the site mission. This site operates year round and there is no alternative to perform the site mission. This is a RAC 2(IC) hazard abatement project identified in Oct 1991.

CURRENT SITUATION: The existing tram has not been significantly renovated since its original construction in the 1950s and is now well past its useful life. The terminal buildings are significantly corroded. The power assembly and drive train are antiquated and parts are impossible to obtain. The controls are minimally functional. The towers are severely corroded and foundation connections are structurally questionable. The tram car is unsafe and has no enclosure. The tram is used for two to three round trips per day over half the year (all winter) when road access is impossible. It is a 45 degree slope up to the radar, climbing over 600 feet from bottom to mountain top. Keeping the road clear during winter is not possible at this remote and minimally manned site. This is a untenable situation with the current tram as the only transport to and from the upper level during the long winter. Personnel safety is at risk.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE ROMANZOF LONG RANGE RADAR SITE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE TRAMWAY SYSTEM | DBWT891003 |

The RAC was assigned due to system deterioration and while a potential threat to life, it does not qualify as an emergency requiring immediate construction. FY94 MILCON is adequate for replacement of the tram but correcting this problem should not be delayed beyond that time.
IMPACT IF NOT PROVIDED: The tram system could fail at any time. If this happens, it is likely that loss of life and/or serious injury would result. Additionally, after such a failure, the transportation of supplies and personnel would cease for that winter season. This would dramatically impact or could terminate the site mission.
ADDITIONAL: The existing tram has been assigned an Occupational Safety Risk Assessment Code (RAC) of 2(I,c), which constitutes "threat to life and property". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction and alternate methods of transport) was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE ROMANZOF LONG RANGE RADAR SITE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE TRAMWAY SYSTEM | DBWT891003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 03 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 28 |
| (d) Date Design Complete | 93 JUL 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 164 |
| (b) All Other Design Costs | 134 |
| (c) Total | 298 |
| (d) Contract | 134 |
| (e) In-house | 164 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| EIELSON AIR FORCE BASE, ALASKA | PACIFIC AIR FORCES | 1.96 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 269 | 2725 | 323 | 28 | 29 | | | | | 3,374 |
| b. End FY 1998 | 270 | 2510 | 407 | 28 | 28 | | | | | 3,243 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 19,991) | |
| b. Inventory Total As Of: (30 SEP 92) | 380,050 |
| c. Authorization Not Yet In Inventory: | 105,250 |
| d. Authorization Requested In This Program: | 7,800 |
| e. Authorization Included In Following Program: (FY 1995) | 23,800 |
| f. Planned In Next Four Program Years: | 25,600 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 542,500 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | | LS | 2,400 | APR 92 | DEC 93 |
| 740-884 | CHILD DEVELOPMENT CENTER | 22,900 | SF | 5,400 | JUL 92 | DEC 93 |
| | | TOTAL: | | 7,800 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 130-142 | FIRE STATION | 24,364 | SF | 2,500 |
| 215-552 | WEAPONS AND RELEASE SYSTEMS FACILITY | 29,000 | SF | 6,200 |
| 218-712 | AIRCRAFT SUPPORT EQUIPMENT FACILITY | 19,500 | SF | 6,700 |
| 442-758 | FLIGHTLINE SUPPLY CENTER | 37,900 | SF | 6,800 |
| 831-168 | ADD TO WASTEWATER TREATMENT PLANT | | LS | 1,600 |
| | | TOTAL: | | 23,800 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 121-122 | REPLACE HYDRANT FUELING SYSTEM | | LS | 15,000 |
| 811-149 | BASE AUXILARY POWER FACILITY | | LS | 2,250 |
| 821-117 | UPGRADE HEAT/POWER PLANT | | LS | 5,400 |
| 880-232 | UPGRADE ALERT HANGER FIRE SUPPRESSION SYSTEM | 25,600 | SF | 1,550 |
| 880-232 | UPGRADE FIRE SUPPRESSION MULTI | 58,906 | SF | 600 |

10. Mission or Major Functions: A fighter wing with one fighter squadron (F-16 aircraft) and one air control squadron (OA-10 aircraft); a fighter training squadron responsible for Cope Thunder exercises; Air National Guard air refueling squadron (KC-135 aircraft) and air support group (C-26 aircraft); and the Air Training Command Arctic Survival School.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,500 |
| c. Occupational safety and health: | 4,670 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EIELSON AIR FORCE BASE, ALASKA | FIRE TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56P | 179-511 | FTQW933008 | 2,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE TRAINING FACILITY | LS | | | 1,790 |
| SUPPORTING FACILITIES | | | | 375 |
| UTILITIES | LS | | | ( 55) |
| LARGE FRAME AIRCRAFT MOCKUP | LS | | | ( 120) |
| SMOKE HOUSE/DRAFTING PIT | LS | | | ( 200) |
| SUBTOTAL | | | | 2,165 |
| CONTINGENCY (5%) | | | | 108 |
| TOTAL CONTRACT COST | | | | 2,273 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 148 |
| TOTAL REQUEST | | | | 2,421 |
| TOTAL REQUEST (ROUNDED) | | | | 2,400 |

10. Description of Proposed Construction: Construct a fire training facility that includes a pit with an impervious liner, concrete/metal edge, large scale aircraft mock-up, smoke house, drafting pit, fuel dispensing system, drain system, leak detectors, paved access, flood lighting, and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct a fire training facility. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. A live fire training facility meeting all environmental and safety regulations is required. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and to prevent groundwater from becoming contaminated by residual unburned fuel.

CURRENT SITUATION: On 20 May 91, live fire training exercises were ceased at all PACAF facilities without an impervious lining. The existing fire training facility at Eielson AFB fell into this category. This cessation only allows the base to conduct aggressive approach exercises with water discharges only. The existing fire training area has unacceptable environmental, safety and operational shortcomings. It does not have high density polyethylene flexible membrane liners and nets, a leak detection system, nor spill containment capability and is thus in violation of current EPA directives. The aircraft mock-up is pieced together and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EIELSON AIR FORCE BASE, ALASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| FIRE TRAINING FACILITY | | FTQW933008 |

unsafe for rescue practices. The existing site is not level, has poor drainage, and inadequate maneuvering room for crash trucks, making winter use impossible. In the past, waste and other fuels were poured onto the mock-up and ignited to simulate a crashed aircraft. Under these conditions, portions of the waste fuels not consumed by the fire would percolate into the ground along with fire fighting foam residues. This practice posed a serious threat to the groundwater resources. There is no other option than on-base training as Eielson AFB cannot provide adequate fire protection and crash/rescue service if conducting training off-base or out of state. Firefighters must train as a team to benefit from crash rescue live fire exercises.

IMPACT IF NOT PROVIDED: The existing fire training facility will remain out of compliance with EPA standards and cannot be used as a fully operational fire training facility. Fire fighters will not be able to conduct essential training, so they cannot maintain proficiency in fighting aircraft fires. The lack of realistic training could result in loss of life or valuable aircraft during actual aircraft emergencies, crashes or structural fires.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation and new construction) was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EIELSON AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY | FTQW933008 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AFR 15 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 JUL 22 |
| (d) | Date Design Complete | 93 DEC 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | YES |
| (b) | Where Design Was Most Recently Used - | EIELSON |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 120 |
| (b) | All Other Design Costs | 73 |
| (c) | Total | 193 |
| (d) | Contract | 40 |
| (e) | In-house | 153 |
| (4) Construction Start | | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EIELSON AIR FORCE BASE, ALASKA | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.28.96 | 740-884 | FTQW850024R1 | 5,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 22,900 | 180 | 4,122 |
| SUPPORTING FACILITIES | | | | 750 |
| UTILITIES | LS | | | ( 235) |
| PAVEMENTS | LS | | | ( 145) |
| SITE IMPROVEMENTS | LS | | | ( 285) |
| PLAYGROUND EQUIPMENT | LS | | | ( 65) |
| FENCING | LS | | | ( 20) |
| SUBTOTAL | | | | 4,372 |
| CONTINGENCY (5%) | | | | 244 |
| TOTAL CONTRACT COST | | | | 5,116 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 333 |
| TOTAL REQUEST | | | | 5,449 |
| TOTAL REQUEST (ROUNDED) | | | | 5,400 |

10. Description of Proposed Construction: Concrete foundation and floor slab over non-frost susceptible soil, concrete block walls, membrane assembly roof, and hot water/glycol heating system. Includes all utilities, pavements, site cleanup, fencing, fire protection, playground and other necessary support.

11. REQUIREMENT: 22,900 SF ADEQUATE: 0 SUBSTANDARD: 7,641 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: An adequate facility to provide supervised care and developmental experiences for over 300 dependent children aged six weeks through ten years. The child development center must provide a comfortable, clean, educational environment where servicemen and women can leave their children on an hourly, daily, or drop-in basis without worrying about the level or nature of care.
CURRENT SITUATION: The existing child development center is inadequate in location and size. The facility is bounded on the south and west sides by two major streets and on the north and east by the BX-commissary parking lot preventing further expansion. The increase in base population due to the F-16 beddown, only compounds the existing facility's deficiencies. The closest off-base child care center is approximately a sixteen mile roundtrip, a hazardous journey in winter due to arctic weather conditions. The military readiness of married and single personnel assigned is dependent on readily available child care, which enables military members to participate in alerts, training exercises and other mission demands. The high cost of living in Alaska often requires both spouses to work, forcing families to send their children to child care at a rate higher than the national average. Due to the remote location of Eielson AFB from nearby communities, civilian employees are also authorized use of the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EIELSON AIR FORCE BASE, ALASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| CHILD DEVELOPMENT CENTER | | FTQW850024R1 |

child development center. Approximately 170 children use the day-care and preschool programs daily. The center has a waiting list of 60 children for preschool and 150 children for full time day-care slots. The existing facility lacks proper storage space requiring supplies to be stored in other facilities. The electrical fixtures are not childproof and the steam radiators are located too low, posing a safety hazard for the children. The kitchen is too small for the commercial cooking equipment required. The facility lacks sufficient staff office area. Also, of the 170 childen currently accommodated, 10 are cared for outside of the main facility in a portion of the Youth Center.

IMPACT IF NOT PROVIDED: Mission readiness is affected because eligible military parents will continue to be denied basic child care and development services. Personnel will be forced to use expensive off-base services, located far from the base. The lack of affordable and quality services results in undue hardship on military families. Over the long term, the consequences are detrimental to productivity, motivation, and ultimately retention.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EIELSON AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | FTQW850024R1 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 OCT 20 |
| (d) Date Design Complete | | 93 DEC 31 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 332 |
| (b) All Other Design Costs | | 161 |
| (c) Total | | 493 |
| (d) Contract | | 90 |
| (e) In-house | | 403 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | PACIFIC AIR FORCES | 1.69 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 914 | 6092 | 991 | | | | 18 | 75 | 402 | 8,492 |
| b. End FY 1998 | 944 | 6129 | 1012 | | | | 18 | 75 | 402 | 8,580 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 18,561) | |
| b. Inventory Total As Of: (30 SEP 92) | 397,547 |
| c. Authorization Not Yet In Inventory: | 35,250 |
| d. Authorization Requested In This Program: | 30,805 |
| e. Authorization Included In Following Program: (FY 1995) | 770 |
| f. Planned In Next Four Program Years: | 57,799 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 522,171 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-159 | CORROSION CONTROL FACILITY | 24,000 SF | 5,975 | JUL 92 | JUL 93 |
| 216-642 | MUNITIONS MAINTENANCE FACILITY | 6,000 SF | 2,100 | JUL 92 | JUL 93 |
| 422-275 | MUNITIONS EQUIPMENT FACILITY | LS | 1,860 | JUL 92 | DEC 93 |
| 442-257 | HAZARDOUS WASTE STORAGE FACILITY | 20,000 SF | 3,900 | JUL 92 | OCT 93 |
| 722-351 | DINING FACILITY | 20,000 SF | 6,800 | JUL 92 | NOV 93 |
| 740-884 | CHILD DEVELOPMENT CENTER | 22,900 SF | 5,070 | JUL 92 | NOV 93 |
| 832-266 | ADD TO SANITARY SEWER SYSTEM | 17,700 LF | 5,100 | JUL 92 | FEB 94 |
| | | TOTAL: | 30,805 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 131-132 | MILSTAR COMMUNICATIONS GROUND TERMINAL | 600 SF | 770 |
| | | TOTAL: | 770 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 112-211 | WIDEN TAXIWAY | 14,000 SY | 1,500 |
| 215-552 | WEAPONS AND RELEASE SYSTEMS SHOP | 11,500 SF | 3,200 |
| 422-264 | MUNITIONS STORAGE IGLOOS | 10,200 SF | 4,800 |
| 442-758 | AIRCRAFT PARTS WAREHOUSE | 40,000 SF | 7,500 |
| 610-285 | ADD TO REGION OPERATIONS CONTROL CENTER | 7,500 SF | 5,800 |

10. Mission or Major Functions: Headquarters Alaskan Command; Headquarters Eleventh Air Force; a flying wing with three fighter squadrons (F-15 aircraft), an air control squadron (E-3 aircraft), and airlift squadron (C-12 and C-130 aircraft); an Air Force Intelligence Command electronic security group; Alaskan NORAD Region Operations Center; and a USAF medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | CORROSION CONTROL FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.28.96 | 211-159 | FXSB923410 | 5,975 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CORROSION CONTROL FACILITY | SF | 24,000 | | 5,100 |
| MAINTENANCE/MANAGEMENT AREA | SF | 22,000 | 220 | (4,840) |
| UNHEATED HAZARDOUS WASTE STORAGE | SF | 2,000 | 130 | ( 260) |
| SUPPORTING FACILITIES | | | | 315 |
| UTILITIES | LS | | | ( 140) |
| PAVEMENTS | LS | | | ( 60) |
| SITE IMPROVEMENTS | LS | | | ( 90) |
| COMMUNICATIONS SUPPORT | LS | | | ( 25) |
| SUBTOTAL | | | | 5,415 |
| CONTINGENCY (5%) | | | | 271 |
| TOTAL CONTRACT COST | | | | 5,686 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 370 |
| TOTAL REQUEST | | | | 6,056 |
| TOTAL REQUEST (ROUNDED) | | | | 5,975 |

10. Description of Proposed Construction: Construct a corrosion control facility to include areas for aircraft and support equipment touch-up, paint removal and spray booths, paint chemical stripping, maintenance oversight and storage. Includes environmental features such as diking, drain with separators and tank, and ventilation. Airfield and vehicle parking pavements, fire protection and all necessary support.

11. REQUIREMENT: 40,250 SF ADEQUATE: 2,315 SF SUBSTANDARD: 41,461 SF
PROJECT: Construct a corrosion control facility. (Current Mission)
REQUIREMENT: An adequate facility, properly sized and configured, for stripping, cleaning and painting of aircraft parts and support equipment, and aircraft touch-up for F-15 and C-130 aircraft. Complete repainting is performed on 30-month average rotational schedule at the regional corrosion control facility at Eielson AFB. However, aircraft parts and support equipment must be painted locally and touch-up painting of aircraft is necessary to treat mildly corroded aircraft sections. Cleaning agents, treatment chemicals, and paint must be applied in a controlled, safe environment and be disposed of in accordance with environmental requirements.
CURRENT SITUATION: The current corrosion control facility is a former hangar, wood construction built in 1944, which lacks essential systems and features to meet EPA, OSHA, State of Alaska and the Municipality of Anchorage (MoA) requirements. The inadequate ventilation system is unable to prevent unsafe accumulation of toxic and explosive vapor mixtures as determined by 49 CFR 1910.106(d). It exposes personnel to high levels of toxic materials including methyl ethyl ketone, zinc chromate, isocyanate and lead. The lead exposure risk has been assigned a RAC 2(IIB). There is an open ECAMP finding for lack of spill containment dikes, and drains

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CORROSION CONTROL FACILITY | FXSB923410 |

which discharge into the sanitary sewer, violating 40 CFR 403.4-.5 and MoA's Industrial Wastewater Permit #11. There is not adequate fire suppression required by 29 CFR 1910.159 and fire codes. The electrical system and fixtures are not explosion proof. The facility is operating under a waiver for the twelve flammable storage lockers inside the facility, needed to keep a minimum working quantity of paints and solvents on hand. The climate at Elmendorf AFB is unsuitable for corrosion control in an unsheltered area. Temperature extremes interfere with paint drying, which requires 60-90 degrees F. Even when hangar doors can be opened for ventilation during the summer, there are severe problems with dust on newly painted surfaces. The existing conditions in this facility create fire, safety and environmental hazards which demand an adequate solution.
IMPACT IF NOT PROVIDED: Personnel will continue to operate in a hazardous and toxic workplace. The threat of possible air and water contamination to the environment will continue. If the facility must close due to these impacts then aircraft and support equipment will not receive the required corrosion protection, thus decreasing their lifespan. Increasing visits by the aircraft to the regional corrosion facility, even if possible, is expensive and reduces mission availability.
ADDITIONAL: The regional corrosion control facility at Eielson AFB is operating at maximum capacity, according to a recent letter from the commander, and cannot process more than the one Elmendorf aircraft per month. This situation will be aggravated by imminent Eielson and Elmendorf AFB mission increases. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, sharing Eielson's facilities and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CORROSION CONTROL FACILITY | FXSB923410 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 31 |
| (d) Date Design Complete | 93 JUL 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 329 |
| (b) All Other Design Costs | 159 |
| (c) Total | 488 |
| (d) Contract | 334 |
| (e) In-house | 154 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | MUNITIONS MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.30P | 216-642 | FXSB890421 | 2,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MUNITIONS MAINTENANCE FACILITY | SF | 6,000 | 220 | 1,320 |
| SUPPORTING FACILITIES | | | | 565 |
| UTILITIES | LS | | | ( 160) |
| PAVEMENTS | LS | | | ( 90) |
| SITE IMPROVEMENTS | LS | | | ( 175) |
| FIRE PROTECTION | LS | | | ( 85) |
| DEMOLITION | SF | 3,950 | 14 | ( 55) |
| SUBTOTAL | | | | 1,885 |
| CONTINGENCY (5%) | | | | 94 |
| TOTAL CONTRACT COST | | | | 1,979 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 129 |
| TOTAL REQUEST | | | | 2,108 |
| TOTAL REQUEST (ROUNDED) | | | | 2,100 |

10. Description of Proposed Construction: Reinforced concrete foundation, concrete walls, and a built-up roofing system. Project includes maintenance bays, specialized doors, hoist system, compressed air, lightning protection, security fencing and lighting, access pavement, 3000 SF equipment pad and all necessary utilities and support. Demolishes existing facility.

11. REQUIREMENT: 6,000 SF ADEQUATE: 0 SUBSTANDARD: 3,950 SF
PROJECT: Construct a munitions maintenance facility. (New Mission)
REQUIREMENT: A facility is required to perform various simultaneous munitions operations involving assembly, maintenance, corrosion control and Time Compliance Technical Orders (TCTO) tasks for various F-15 munitions, components and containers. Facility is also required to provide munitions maintenance support for the newly assigned F-15E aircraft and its associated inert and "smart" weapons.
CURRENT SITUATION: The existing conventionel munitions shop is not adequate in size to allow more than one munition operation at a time. Nor is the installed equipment capable of meeting mission needs. Facility is located in an area requiring explosive safety waivers. Net Explosive Weight limitations greatly restrict the use of munitions required for support of F-15C/D and E aircraft. The requirements for TDY aircraft cannot be adequately supported under present conditions. These missions drive dissimilar munitions requirements that must be prepared simultaneously; however, simultaneous munitions preparation cannot be performed in the existing facility. Restricted height clearances, small access door (8' X 11') and limited drive through capability prevent the offloading of munitions trailers within the existing facility. Consequently, all munitions offloading must be done outside, in the harsh

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS MAINTENANCE FACILITY | FXSB890421 |

arctic environment. Munitions are then transferred to smaller trailers capable of entering the facility. Lack of a hoist requires hand carrying of numerous heavy munitions components within operating bays. Compressed air is not available to support the Automatic Loading System trailers. The existing facility's load bearing wall configuration and the munitions bay height will not permit alteration of the facility to meet mission needs. The facility is isolated from other munitions functions which delays delivery time and hampers command and control. The current munitions shop is sited within the 1,000 foot primary clearance zone of the north/south runway and is too close to non-munitions facilities. It is located just 600 feet from the non-DOD owned Alaska Railroad train track.

IMPACT IF NOT PROVIDED: Continued handling of explosive ordinance in a facility which does not meet minimum standards for safety could lead to a disaster and great loss of life. From an operational perspective, timely support of assigned and transient aircraft will not be met with the required effectiveness. This will delay various aircraft on the ramp as they await munitions. Without relocating the facility to join the missile shop, munitions management, and munitions igloo facilities, command and control over munitions functions is hampered. Securing the munition resources will remain inefficient and difficult.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, repair and replacement construction) was done. It indicates there is only one option which meets explosive safety and mission requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared.

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS MAINTENANCE FACILITY | FXSB890421 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 31 |
| (d) Date Design Complete | 93 JUL 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 105 |
| (b) All Other Design Costs | 69 |
| (c) Total | 174 |
| (d) Contract | 105 |
| (e) In-house | 69 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | MUNITIONS EQUIPMENT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.30P | 422-275 | FXSB923411 | 1,860 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MUNITIONS EQUIPMENT FACILITY | SF | 2,700 | 240 | 648 |
| SUPPORTING FACILITIES | | | | 1,015 |
| UTILITIES | LS | | | ( 55) |
| PAVEMENTS | LS | | | ( 370) |
| SITE IMPROVEMENTS/SECURITY FENCING | LS | | | ( 570) |
| COMMUNICATIONS SUPPORT | LS | | | ( 20) |
| SUBTOTAL | | | | 1,663 |
| CONTINGENCY (5%) | | | | 83 |
| TOTAL CONTRACT COST | | | | 1,746 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 113 |
| TOTAL REQUEST | | | | 1,859 |
| TOTAL REQUEST (ROUNDED) | | | | 1,860 |

10. Description of Proposed Construction: Concrete foundation and floor slab over non-frost susceptible soil, concrete block walls, membrane assembly roof system. Includes security lighting, utilities, fire protection and all necessary support.

11. REQUIREMENT: 2,700 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a munitions equipment facility. (New Mission)

REQUIREMENT: A facility is required for the maintenance, inspection and refurbishment of 142 munitions handling trailers and over 1,000 pieces of smaller support equipment. Trailers are used to transport all explosives, including missiles, ready munitions and equipment. Fencing is required to secure the facility and incorporate it into the munitions storage area.

CURRENT SITUATION: The arctic environment decreases trailer reliability/service life and increases all equipment maintenance requirements. The current munitions equipment maintenance function does not possess a dedicated, adequate facility for performing maintenance on the large fleet of trailers and support equipment. An interim facility will be available under authority of DODI 4165.56 until 1994 and provides minimum space, weather protection for maintenance personnel and storage for tools and support equipment. However, it falls far short of space, installed equipment, and basic amenities to support the trailer fleet and maintenance personnel. The interim facility is isolated from other munitions functions, which delays delivery and hampers command and control.

IMPACT IF NOT PROVIDED: Without this project, munitions support equipment maintenance will be degraded. Service life of these assets will be greatly reduced. The ability to support munition taskings is lessened. This project is needed to achieve efficiencies to get the current job done

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ELMENDORF AIR FORCE BASE, ALASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| MUNITIONS EQUIPMENT FACILITY | | FXSB923411 |

with reduced manning.
ADDITIONAL: There was no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in AFM 86-2 "Standard Facility Requirements".

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS EQUIPMENT FACILITY | FXSB923411 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 29 |
| (d) Date Design Complete | 93 NOV 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 105 |
| (b) All Other Design Costs | 69 |
| (c) Total | 174 |
| (d) Contract | 105 |
| (e) In-house | 69 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | HAZARDOUS WASTE STORAGE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56P | 442-257 | FXSB933012 | 3,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| HAZARDOUS WASTE STORAGE FACILITY | SF | 20,000 | 135 | 2,700 |
| SUPPORTING FACILITIES | | | | 795 |
| UTILITIES | LS | | | ( 175) |
| PAVEMENTS | LS | | | ( 205) |
| SITE IMPROVEMENTS | LS | | | ( 135) |
| FIRE SUPPRESSION | LS | | | ( 80) |
| DEMOLITION/ASBESTOS DISPOSAL | SF | 19,800 | 10 | ( 200) |
| SUBTOTAL | | | | 3,495 |
| CONTINGENCY (5%) | | | | 175 |
| TOTAL CONTRACT COST | | | | 3,670 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 239 |
| TOTAL REQUEST | | | | 3,909 |
| TOTAL REQUEST (ROUNDED) | | | | 3,900 |

10. Description of Proposed Construction: Construct a hazardous waste storage warehouse meeting all environmental and life/safety codes. Contains open bay and secure covered storage with fire walls, exterior shed storage, management and support space. Includes ventilation, alarm system, entry control, drainage to containment tank, diking, fire protection and other necessary support. Demolish old building.

11. REQUIREMENT: 42,453 SF ADEQUATE: 21,410 SF SUBSTANDARD: 20,843 SF
PROJECT: Construct a hazardous waste storage facility. (Current Mission)
REQUIREMENT: This is a level I environmental compliance requirement. An EPA permitted facility is needed for the accumulation and storage of hazardous waste prior to turn in to the Defense Reutilization and Marketing Office (DRMO) for disposal. Hazardous wastes cannot be turned in for disposal until minimum quantity is stockpiled, segregated, containerized and marked correctly on mandated tags and forms. Elmendorf AFB has the only Treatment, Storage, and Disposal Facility (TSDF) license in the Anchorage area.
CURRENT SITUATION: The current facility was built in 1944 and has not received a major renovation since. The current facility lacks essential systems/features to meet EPA and OSHA requirements for the operation of a TSDF. The facility does not have floor drains which connect to a holding tank in case of spills. The facility lacks alarm systems to provide immediate emergency evacuation instruction to personnel in case of spill. The container storage area doesn't allow for proper segregation of incompatible wastes. The container storage area does not have spill containment diking. The fire suppression systems do not meet standards for TSDF operations. Fire walls are needed to segregate storage areas and obtain maximum use of storage space. The facility lacks a ventilation

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ELMENDORF AIR FORCE BASE, ALASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| HAZARDOUS WASTE STORAGE FACILITY | | FXSB933012 |

system providing necessary air changes to prevent the accumulation of toxic or explosive vapor mixtures. The electrical system does not meet National Electrical Code requirements for the storage of flammables and combustibles and needs to be upgraded. The facility is not insulated nor has the exterior siding been upgraded since original construction. Insulation and new siding will prevent heat loss and possible freezing of materials during the winter months. This facility is required to restrict and monitor entry. The existing fence is not adequate for appropriate vehicle, pedestrian or fire lane access. Some interim improvements have been made, however, further investment to upgrade the existing facility is not wise since building's useful life has been exceeded. Replacement of the current inadequate facility, with one meeting all codes and standards, is needed.

IMPACT IF NOT PROVIDED: Workers would continue to operate in a high health risk workplace. Also, failure to resolve the regulatory deficiencies could result in EPA not renewing the existing permit. This facility is one of few permitted TSDFs in the State, with most hazardous waste generated by USAF bases and other DoD installations in Alaska shipping to this facility. Failure to retain the permit could subject Elmendorf AFB and other DoD installations to notices of violations, legal action and fines from EPA for exceeding allowable storage time limits for hazardous waste. Without a facility, waste would require quick transport, normally airlift, in small quantities and high expense to lower 48 states.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, repair and replacement construction) was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| HAZARDOUS WASTE STORAGE FACILITY | FXSB933012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 06 |
| (d) Date Design Complete | 93 OCT 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 181 |
| (b) All Other Design Costs | 140 |
| (c) Total | 321 |
| (d) Contract | 167 |
| (e) In-house | 154 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | DINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.28.96 | 722-351 | FXSB943003R1 | 6,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DINING FACILITY | SF | 20,000 | 240 | 4,800 |
| SUPPORTING FACILITIES | | | | 1,240 |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | LS | | | ( 290) |
| SITE IMPROVEMENTS | LS | | | ( 350) |
| COMMUNICATIONS SUPPORT | LS | | | ( 145) |
| EMERGENCY GENERATORS | LS | | | ( 205) |
| SUBTOTAL | | | | 6,040 |
| CONTINGENCY (5%) | | | | 302 |
| TOTAL CONTRACT COST | | | | 6,342 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 412 |
| TOTAL REQUEST | | | | 6,754 |
| TOTAL REQUEST (ROUNDED) | | | | 6,800 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, roof system, fire protection, and all necessary support. Includes dining and serving areas, kitchen, storage, freezer/chill space, receiving and support space.

11. REQUIREMENT: 40,900 SF ADEQUATE: 0 SUBSTANDARD: 27,251 SF
PROJECT: Construct a dining facility. (Current Mission)
REQUIREMENT: An adequate dining facility to properly feed assigned and transient unaccompanied enlisted personnel. The food service personnel need functionally-arranged and properly-equipped food preparation areas, adequate servicing space, and food equipment storage space.
CURRENT SITUATION: The existing main dining facility is a masonry structure built in 1952. At only 13,774 square feet, it is grossly undersized to accommodate the number of permanent party and transient enlisted personnel performing duty at Elmendorf Air Force Base. All of the utility systems to support the dining operation are old, under capacity to meet current load/demand, and require excessive maintenance. The alignment and grade of the access road is too steep for deliveries during the winter season. The existing facility is part of the billeting office/transient dormitory, which precludes economical addition to and renovation of the building. Due to the large deficiency of airmen recreational facilities and the convenience of the existing dining hall to airmen dormitories, this facility will be converted to a recreation center facility with a future O&M project. Of the other two dining facilities at Elmendorf, one serves a remote communications site only, and the other requires upgrade with a future O&M project. Addition or alteration of these other dining halls is not a satisfactory alternative since they are distant from the dormitories and area of base that this dining hall

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DINING FACILITY | FXSB943003R1 |

replacement serves. Due to weather conditions and vastness of this large base, a single consolidated facility would not adequately serve the enlisted population.

IMPACT IF NOT PROVIDED: Continued use of an inadequate facility that is too small to accommodate the current demand. The sanitation and safety problems, deteriorating utilities, and other discrepancies will continue to degrade food service and adversely affect employee and patron morale.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, addition/alteration, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DINING FACILITY | FXSB943003R1 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 93 JAN 26 |
| (d) Date Design Complete | | 93 NOV 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 363 |
| (b) All Other Design Costs | | 183 |
| (c) Total | | 546 |
| (d) Contract | | 373 |
| (e) In-house | | 173 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96P | 740-884 | FXSB953002R1 | 5,070 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 22,900 | 170 | 3,893 |
| SUPPORTING FACILITIES | | | | 640 |
| UTILITIES | LS | | | ( 235) |
| PAVEMENTS | LS | | | ( 130) |
| SITE IMPROVEMENTS | LS | | | ( 185) |
| PLAYGROUND EQUIPMENT | LS | | | ( 70) |
| FENCING | LS | | | ( 20) |
| SUBTOTAL | | | | 4,533 |
| CONTINGENCY (5%) | | | | 227 |
| TOTAL CONTRACT COST | | | | 4,760 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 309 |
| TOTAL REQUEST | | | | 5,069 |
| TOTAL REQUEST (ROUNDED) | | | | 5,070 |

10. Description of Proposed Construction: Concrete foundation and floor slab, concrete block walls, and built-up roof. Work includes all utilities, pavements, fire protection, environmental clean-up, playground and other necessary support.

11. REQUIREMENT: 83,850 SF ADEQUATE: 12,368 SF SUBSTANDARD: 1,674 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: An adequate facility to provide supervised care and developmental experiences for over 300 dependent children aged six weeks through ten years. The child development center must provide a comfortable, clean, educational environment where servicemen and women can leave their children on an hourly, daily, or drop-in basis without worrying about the level or nature of care.
CURRENT SITUATION: The existing child development facilities directly support an average of 526 children daily (180 children are cared for in the primary facility, while care is temporarily provided for 36 children in the Arts & Crafts Center, 170 children in an old barracks, and 140 children in the Orion & Aurora Schools). Children must be turned away because even these work arounds are inadequate to accommodate the demand (423 children are on the waiting list and 406 children are cared for in private homes on base). Infant and toddler areas are especially undersized. The addition of a F-15E mission will aggravate the child care shortfall. The military readiness of married and single parent personnel assigned is dependent upon readily available child care, which enables military members to participate in alerts, training exercises and other mission demands. Hours of operation of on-base child care can support contingency demands. The high cost of living in Alaska often requires both spouses to work, forcing a higher than national average of families

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ELMENDORF AIR FORCE BASE, ALASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| CHILD DEVELOPMENT CENTER | | FXSB953002R1 |

to send their children to child care. Off-base child care facilities are extremely expensive (twice on-base rates).

IMPACT IF NOT PROVIDED: Mission readiness is affected because eligible military parents will continue to be denied basic child care needs and development services. Personnel will be forced to use scarce and expensive off-base services. The lack of affordable and quality child care results in undue hardship on military families. Over the long term, the consequences are detrimental to productivity, motivation and ultimately career retention.

ADDITIONAL: The balance of this requirement will be addressed in future MILCON projects. An economic analysis has been prepared comparing the alternatives of new construction, revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | FXSB953002R1 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 20 |
| (d) Date Design Complete | 93 NOV 19 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 310 |
| (b) All Other Design Costs | 155 |
| (c) Total | 465 |
| (d) Contract | 90 |
| (e) In-house | 375 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | ADD TO SANITARY SEWER SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56P | 832-266 | FXSB870404 | 5,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO SANITARY SEWER SYSTEM | LF | 17,700 | 160 | 2,832 |
| SUPPORTING FACILITIES | | | | 1,705 |
| LIFT STATIONS/MANHOLES/CONNECTION | LS | | | ( 765) |
| INDUSTRIAL PRE-TREATMENT PLANT | LS | | | ( 560) |
| ROAD/CREEK CROSSING | LS | | | ( 260) |
| SUPPORT UTILITIES | LS | | | ( 50) |
| OIL/WATER SEPARATORS | LS | | | ( 70) |
| SUBTOTAL | | | | 4,537 |
| CONTINGENCY (5%) | | | | 227 |
| TOTAL CONTRACT COST | | | | 4,764 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 310 |
| TOTAL REQUEST | | | | 5,074 |
| TOTAL REQUEST (ROUNDED) | | | | 5,100 |

10. Description of Proposed Construction: Extend sanitary sewer system to flightline operations area. Includes sewer mains, lift station, pressure relief stations, industrial pre-treatment plant, building connections, oil/water separators, utilities and all necessary support.

11. REQUIREMENT: 375,954 LF ADEQUATE: 358,254 LF SUBSTANDARD: 0
PROJECT: Add to sanitary sewer system. (Current Mission)
REQUIREMENT: This is a level I environmental compliance requirement. A sanitary sewer line and industrial treatment plant are needed to provide efficient removal and treatment of large quantities of industrial wastewater/human sewage from a flightline operations area that includes two hangers, a storage building, a missile maintenance shop, and an aircraft wash area. Further development of the area is planned to support the beddown of the new F-15E squadron in FY92.
CURRENT SITUATION: This base area has no sewer lines and all wastewater is treated via septic systems and returned to the aquifer through a trench drain leach field. Most of the remaining base has sewer lines emptying into the Municipality of Anchorage sewer system. This area is out of compliance with State wastewater treatment regulations. Extensive development for F-15E support and other facilities is planned due to base topography making it the only open area with access to flightline. It is expected that additonal human sewage loading will exceed the capacity of the area for septic tank treatment of wastewater, violating the Clean Water Act. Solvents, oils and greases migrate into the septic systems in this industrial area despite preventative efforts. Management procedures are in-place to reduce the severity, but industrial wastewater discharge due to aircraft cleaning operations and minor leaks is unavoidable. Discharge of industrial waste into leach fields violates 18 AAC 75 and

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO SANITARY SEWER SYSTEM | FXSB870404 |

should be treated in accordance with 18 AAC 72.210. Two leach fields in this area are Installation Restoration Program (IRP) sites now being cleaned up due to these problems. With F-15E beddown, expanded maintenance activities will generate significant increases of industrial and human wastewater. The lack of a sewer system prevents the appropriate treatment of wastewater and puts Elmendorf AFB out of compliance with Federal and State regulations.

IMPACT IF NOT PROVIDED: Industrial and human sewage wastewater will not be treated in accordance with established environmental statutes. The increased industrial waste water/sewage generated by F-15E maintenance and operations activities will overtax the existing septic system, polluting the environment and possibly making Elmendorf AFB open for notices of violation, fines and legal action.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, service contract, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO SANITARY SEWER SYSTEM | FXSB870404 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 29 |
| (d) Date Design Complete | 94 FEB 27 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 285 |
| (b) All Other Design Costs | 148 |
| (c) Total | 433 |
| (d) Contract | 295 |
| (e) In-house | 138 |
| (4) Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| DAVIS-MONTHAN AIR FORCE BASE, ARIZONA | AIR COMBAT COMMAND | 0.90 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 548 | 3995 | 1338 | 88 | 381 | | 1 | 2 | 17 | 6,370 |
| b. End FY 1998 | 746 | 4145 | 1408 | 88 | 381 | | 1 | 2 | 17 | 6,788 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 10,983) | |
| b. Inventory Total As Of: (30 SEP 92) | 250,398 |
| c. Authorization Not Yet In Inventory: | 13,600 |
| d. Authorization Requested In This Program: | 650 |
| e. Authorization Included In Following Program: (FY 1995) | 2,800 |
| f. Planned In Next Four Program Years: | 15,338 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 282,786 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 650 | NOV 92 | AUG 93 |
| | | TOTAL: | 650 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 211-159 | CORROSION CONTROL FACILITY | 15,400 | SF | 2,800 | |
| | | TOTAL: | | 2,800 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 116-662 | DANGEROUS CARGO PAD | 94,750 | SY | 4,900 |
| 116-665 | POWER CHECK PAD W/NOISE SUP | 1 | EA | 740 |
| 216-642 | ADD TO AND ALTER CONVENTIONAL MUNITIONS SHOP | 8,100 | SF | 647 |
| 740-674 | PHYSICAL FITNESS CENTER | 30,000 | SF | 4,079 |
| 911-146 | LAND, FEE, PURCHASE | 232 | AC | 1,600 |

10. Mission or Major Functions: A flying wing with two fighter training squadrons responsible for training all A-10 aircrews; two air control squadrons (OA-10 aircraft), and two electronic combat squadrons (EC-130 aircraft); an Air Force Reserve special operations squadron (HH-3 helicopters); an Air National Guard fighter interceptor detachment (F-16 aircraft); and Air Force Materiel Command's Aerospace Maintenance and Regeneration Center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LUKE AIR FORCE BASE, ARIZONA | AIR COMBAT COMMAND | 0.95 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 546 | 3689 | 1078 | 244 | 45 | 8 | 1 | 18 | 3 | 5,632 |
| b. End FY 1998 | 641 | 5126 | 1085 | 244 | 45 | 8 | 1 | 18 | 3 | 7,171 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 7,249) | |
| b. Inventory Total As Of: (30 SEP 92) | 242,096 |
| c. Authorization Not Yet In Inventory: | 2,950 |
| d. Authorization Requested In This Program: | 6,750 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 9,777 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 261,573 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | 1 EA | 800 | JUL 92 | JUN 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 1,250 | | |
| 722-351 | DINING FACILITY | 27,900 SF | 4,700 | APR 89 | AUG 93 |
| | | TOTAL: | 6,750 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 171-152 | ACADEMIC LECTURE HALL | 12,000 SF | 2,727 |
| 216-642 | MUNITIONS MAINTENANCE FACILITY | 12,000 SF | 1,800 |
| 740-674 | ADD TO AND ALTER PHYSICAL FITNESS CENTER | 26,000 SF | 3,000 |
| 880-211 | CLOSED HEAD AUTO SPRINKLER | 124,000 SF | 2,250 |

10. Mission or Major Functions: A fighter wing with three F-16 squadrons and two F-15E squadrons tht are responsible for training all F-16 and F-15E aircrews; and an Air Force Reserve fighter group (F-16 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LUKE AIR FORCE BASE, ARIZONA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56C | 411-135 | NUEX923017 | 1,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,045 |
| REMOVE TANKS | EA | 14 | 59,500 | ( 833) |
| REPLACE TANKS | EA | 13 | 16,310 | ( 212) |
| SUPPORTING FACILITIES | | | | 25 |
| SITE IMPROVEMENTS | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 1,070 |
| CONTINGENCY (10%) | | | | 107 |
| TOTAL CONTRACT COST | | | | 1,177 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 71 |
| TOTAL REQUEST | | | | 1,248 |
| TOTAL REQUEST (ROUNDED) | | | | 1,250 |

10. Description of Proposed Construction: Excavate 14 underground storage tanks (USTs) of 100-50,000 gallon capacity. Remove and dispose of tank sludge residue. Replace 13 with aboveground tanks. Project includes release prevention and detection, corrosion protection, site improvements, paving, remediation of contamination, and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Remove/replace underground storage tanks (USTs). (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy base mission requirements. All petroleum dispensing and operating facilities must be provided with a means for detecting and preventing release of pollutants into the surrounding environment. All USTs must be upgraded in accordance with federal law (40 CFR 280.21) by December 1998. This includes leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment.

CURRENT SITUATION: Underground storage tanks at Luke AFB do not meet federal requirements for corrosion protection, secondary containment, and overfill/spill protection. The condition of these tanks varies with a majority of the tanks at or exceeding their design life. These deficiencies must be corrected to prevent violation of federal UST regulations. If underground storage tanks require replacement, Air Force policy is to replace them with aboveground tanks or relocate them into underground vaults, whenever possible.

IMPACT IF NOT PROVIDED: Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment along with extremely costly cleanup

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LUKE AIR FORCE BASE, ARIZONA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS | | NUEX923017 |

measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines and significant adverse publicity.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LUKE AIR FORCE BASE, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | NUEX923017 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 50

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LUKE AIR FORCE BASE, ARIZONA | DINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 722-351 | NUEX883005 | 4,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DINING FACILITY | SF | 27,900 | 128 | 3,435 |
| AIRMAN DINING HALL (DETACHED) | SF | 17,200 | 140 | (2,408) |
| TROOP SUBSISTENCE WAREHOUSE | SF | 5,000 | 96 | ( 480) |
| LINEN EXCH, POSTAL CNTR & MECH ROOMS | SF | 5,700 | 96 | ( 547) |
| SUPPORTING FACILITIES | | | | 805 |
| UTILITIES | LS | | | ( 190) |
| SITE IMPROVEMENT | LS | | | ( 190) |
| PAVEMENTS | SY | 5,000 | 34 | ( 170) |
| ASBESTOS REMOVAL | SF | 14,900 | 10 | ( 150) |
| DEMOLITION | SF | 20,900 | 5 | ( 105) |
| SUBTOTAL | | | | 4,240 |
| CONTINGENCY (5%) | | | | 212 |
| TOTAL CONTRACT COST | | | | 4,452 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 267 |
| TOTAL REQUEST | | | | 4,719 |
| TOTAL REQUEST (ROUNDED) | | | | 4,700 |

10. Description of Proposed Construction: Work includes spread footings and foundation wall, concrete floor, masonry walls, roof joists, and roof system. Facility includes dining area, kitchen, serving area, dishwashing area, bakery, regular and troop issue storage, office, latrines and receiving area. Project includes demolition, utilities and necessary support.
Air Conditioning: 120 Tons.

11. REQUIREMENT: 27,900 SF ADEQUATE: 0 SUBSTANDARD: 22,979 SF
PROJECT: Construct dining hall, troop issue, postal service center and linen exchange. (Current Mission)
REQUIREMENT: An adequately sized and configured dining facility is required to properly feed assigned and transient unaccompanied enlisted personnel. To attract and retain competent, professional enlisted personnel, the dining facility must provide a pleasant atmosphere. There must be adequate space for food preparation and dishwashing equipment, dining and food storage. The dining facility should include troop subsistence, linen exchange, and postal service center. This will provide a central facility where the enlisted personnel can make a single stop to eat, pickup and drop off linen, and pickup field rations and mail.
CURRENT SITUATION: The existing dining hall is located in a substandard facility that cannot be altered or reconfigured and is the only such facility at Luke AFB. The facility is over 31 years old. Deteriorated, leaking water pipes have caused extensive damage to the facility and generate offensive odors. Air conditioning and heating is inadequate, inefficient and costly because of poor insulation and deteriorated weatherproofing of doors and windows. Air conditioning to the kitchen area is almost completely ineffective. The poor condition of the utility

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LUKE AIR FORCE BASE, ARIZONA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| DINING FACILITY | | NUEX883005 |

systems and the obsolete electrical system result in low water pressure and unstable electrical power. A grease trap located next to the entrance produces an extremely offensive smell. The condition of the facility does not provide an appropriate atmosphere for dining. Troop Issue is located a quarter of a mile from the dining hall, which forces inefficient use of manpower due to the double handling of food. Troop Issue is also located in a 20-year-old metal building that requires constant repairs. This building is also one of the most energy inefficient facilities on Luke AFB. Placing the postal service center and linen exchange in the dining hall will provide a one-stop central location for more convenient services. The one-stop central location for dining, troop subsistence, linen exchange, and postal center has been tried at Langley AFB as a pilot program and has been favorably received. This project will demolish 20,900 SF including the existing dining facility (14,884 SF) and the existing postal service center (6,016 SF).

IMPACT IF NOT PROVIDED: Low troop morale, in part from poor food service due to inadequate facilities, will adversely affect the performance of enlisted personnel supporting the training mission at Luke AFB. Airmen who live on base are not provided Basic Allowance for Subsistence (BAS) and are therefore expected to eat in the dining facility. We must provide them a pleasant atmosphere in which to eat.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LUKE AIR FORCE BASE, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DINING FACILITY | NUEX883005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 APR 21 |
| (b) Percent Complete as of Jan 93 | 60% |
| (c) Date 35% Designed | 92 SEP 30 |
| (d) Date Design Complete | 93 AUG 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 294 |
| (b) All Other Design Costs | 98 |
| (c) Total | 392 |
| (d) Contract | 294 |
| (e) In-house | 98 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| NAVAJO ARMY DEPOT, ARIZONA | | 0.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 7,250 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 7,250 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 422-264 | ALTER MINUTEMAN II STORAGE FACILITIES | LS | 7,250 | SEP 92 | MAR 93 |
| | | TOTAL: | 7,250 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NAVAJO ARMY DEPOT, ARIZONA | ALTER MINUTEMAN II STORAGE FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.12.13 | 422-264 | PAYZ941000 | 7,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER MINUTEMAN II STORAGE FACILITIES | LS | | | 5,000 |
| SUPPORTING FACILITIES | | | | 1,200 |
| UTILITIES | LS | | | ( 850) |
| PAVEMENTS | LS | | | ( 250) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 6,200 |
| CONTINGENCY (10%) | | | | 620 |
| TOTAL CONTRACT COST | | | | 6,620 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 409 |
| TOTAL REQUEST | | | | 7,229 |
| TOTAL REQUEST (ROUNDED) | | | | 7,250 |

10. Description of Proposed Construction: Renovate earth-covered concrete storage buildings. Work includes new electric service, door replacement, heating, lighting, an environmental monitoring system, access pavements and necessary support.

11. REQUIREMENT: As required.

PROJECT: Alter earth-covered igloos for Minuteman II storage. (New Mission)

REQUIREMENT: Adequately sized and sited facilities are needed to store Minuteman II missile stages which will be deactivated as part of a downsizing of strategic delivery systems. Structural modifications to existing igloos are needed to provide access to the facilities. Heating and environmental controls are required to preserve the missiles during storage. Upgraded electrical power is required for the lighting, environmental, and security requirements of the igloos.

CURRENT SITUATION: The Minuteman II missile system is being deactivated. Adequate storage space, in terms of numbers and facility requirements, do not exist. Facilities at the Navajo Depot Facility are inadequate in terms of door size, electrical power and environmental controls.

IMPACT IF NOT PROVIDED: Deactivation of Minuteman II missile sites cannot be safely accomplished. If the missiles are stored in inadequate facilities, safety will be compromised and the missiles will degrade at an accelerated rate.

ADDITIONAL: All known alternative options were considered during the development of this project. No reasonable option could meet the mission and explosive safety requirements; therefore, no economic analysis was needed or performed. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

NAVAJO ARMY DEPOT, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER MINUTEMAN II STORAGE FACILITIES | PAYZ941000 |

However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

NAVAJO ARMY DEPOT, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER MINUTEMAN II STORAGE FACILITIES | PAYZ941000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 01 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 SEP 15 |
| (d) Date Design Complete | | 93 MAR 20 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | YES |
| (b) Where Design Was Most Recently Used - | | NAVAJO |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 30 |
| (b) All Other Design Costs | | 30 |
| (c) Total | | 60 |
| (d) Contract | | 30 |
| (e) In-house | | 30 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | AIR MOBILITY COMMAND | 0.79 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 649 | 3669 | 481 | 474 | 535 | 12 | 174 | 721 | 9 | 6,724 |
| b. End FY 1998 | 595 | 3360 | 453 | 474 | 535 | 12 | 174 | 721 | 9 | 6,333 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 7,210) | |
| b. Inventory Total As Of: (30 SEP 92) | 181,231 |
| c. Authorization Not Yet In Inventory: | 9,160 |
| d. Authorization Requested In This Program: | 4,500 |
| e. Authorization Included In Following Program: (FY 1995) | 2,250 |
| f. Planned In Next Four Program Years: | 22,120 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 219,261 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 141-459 | ALTER JRTC OPERATIONS CENTER | 23,190 SF | 1,050 | JUL 92 | JUL 93 |
| 211-157 | ADD TO AND ALTER ENGINE INSPECTION AND REPAIR SHOP | 9,200 SF | 1,200 | APR 92 | MAY 93 |
| 740-884 | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOP) | 25,800 SF | 2,250 | JUL 92 | JUL 93 |
| | | TOTAL: | 4,500 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 130-835 | ADD TO AND ALTER SECURITY POLICE OPERATIONS | 18,122 SF | 2,250 | |
| | | TOTAL: | 2,250 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,100 |
| 411-135 | REPAIR JET FUEL STORAGE | LS | 6,000 |
| 740-443 | TRANSIENT LODGING FACILITY | 18,500 SF | 1,700 |
| 740-674 | ADD TO AND ALTER PHYSICAL FITNESS CENTER | 52,500 SF | 4,100 |
| 841-427 | ADD TO WATER STORAGE TANK | LS | 6,000 |

10. Mission or Major Functions: An airlift wing which includes four C-130 squadrons, one of which conducts C-130 training for all DoD components and foreign countries, and an Air National Guard tactical training group with C-130 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 6,000 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | ALTER JRTC OPERATIONS CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.97 | 141-459 | NKAK943007 | 1,050 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER JRTC OPERATIONS CENTER | SF | 23,200 | 35 | 812 |
| SUPPORTING FACILITIES | | | | 75 |
| UTILITIES | LS | | | ( 75) |
| SUBTOTAL | | | | 887 |
| CONTINGENCY (10%) | | | | 89 |
| TOTAL CONTRACT COST | | | | 976 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 59 |
| TOTAL REQUEST | | | | 1,035 |
| TOTAL REQUEST (ROUNDED) | | | | 1,050 |

10. Description of Proposed Construction: All electrical, mechanical and structural work necessary to alter facility for JRTC. Work includes altering interior walls and lighting. Relocate/install partitions, lockers and communications. Upgrade mechanical systems and replace built-up roof with pitched roof and necessary support. Area includes operations and crew area.

11. REQUIREMENT: 23,200 SF ADEQUATE: 0 SUBSTANDARD: 3,020 SF
PROJECT: Alter Joint Readiness Training Center (JRTC) operations center. (New Mission)
REQUIREMENT: Adequately sized facilities are required for the 34th Combat Airlift Training Squadron (CATS) crew readiness operations in support of JRTC operations at Little Rock AFB. This facility provides operational space/briefing room for the Joint Operations Training Staff (JOTS), and kitchen, dining, study rooms and sleeping quarters for the air crews and ground crews who are TDY to Little Rock in support of JRTC operations. The JRTC is AMC's premier forum for ensuring the combat readiness of aircrews, ALCE (Airlift Control Element), Combat Control and Air Base Ground Defense forces.
CURRENT SITUATION: The 34th CATS became operational at Little Rock in 1989. Part of their mission, to provide the C-130 instructor school, was bedded down in a vacant facility located on the flightline. The balance of their mission, JOTS, is temporarily bedded down in a Group Headquarters administrative facility. All the billeting requirements to house the air and ground crews who go to Little Rock TDY to support JRTC operations are met by utilizing off-base quarters. This is not only expensive ($350,000 annually), but it does not provide realistic training and the timely response required to meet JRTC mobility deployment times. There are 100

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ALTER JRTC OPERATIONS CENTER | | NKAK943007 |

personnel involved in each exercise which lasts fourteen days and there are ten rotations per year.

IMPACT IF NOT PROVIDED: The high billeting cost for TDY crews to stay off-base will reduce the number of personnel that units can afford to send to JRTC. Off base billeting does not provide realistic training by dislocating personnel from the training environment necessary to support JRTC.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER JRTC OPERATIONS CENTER | NKAK943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 AUG 03 |
| (d) Date Design Complete | | 93 JUL 08 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 63 |
| (b) All Other Design Costs | | 37 |
| (c) Total | | 100 |
| (d) Contract | | |
| (e) In-house | | 100 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 211-157 | NKAK903001 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | SF | 9,600 | | 883 |
| ADDITION | SF | 8,000 | 94 | ( 752) |
| ALTERATION | SF | 1,600 | 82 | ( 131) |
| SUPPORTING FACILITIES | | | | 150 |
| UTILITIES | LS | | | ( 75) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | SY | 700 | 36 | ( 25) |
| SUBTOTAL | | | | 1,033 |
| CONTINGENCY (10%) | | | | 103 |
| TOTAL CONTRACT COST | | | | 1,136 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 62 |
| TOTAL REQUEST | | | | 1,198 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Reinforced concrete foundations and floor, structural steel frames, masonry walls, roof and monorails with hoists. Area includes shop space, maintenance management space, utilities and other necessary support.

11. REQUIREMENT: 41,564 SF ADEQUATE: 31,964 SF SUBSTANDARD: 1,600 SF
PROJECT: Add to and alter aircraft engine inspection and repair shop. (Current Mission)
REQUIREMENT: An expanded facility is required to maintain, inspect and repair aircraft engines and provide storage for spare engines, tools and support equipment. This facility supports maintenance and inspection operations for 401 C-130 aircraft engines.
CURRENT SITUATION: The engine repair and build-up crew areas are not large enough to support the number of engines required for effective productivity. Space is necessary for maintenance on four engines while existing facility supports only three engine maintenance spaces. The gas turbine compressor section is overcrowded with special tools, test equipment, as well as with repairable, serviceable and in-work units. The quick engine change (QEC) kit section has been divided into separate sections due to critical space problems, creating span of control problems.
IMPACT IF NOT PROVIDED: Maintenance operations will continue to be performed in an overcrowded facility increasing the risk of accidents.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | NKAK903001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 APR 21 |
| (b) Percent Complete as of Jan 93 | 40% |
| (c) Date 35% Designed | 92 AUG 28 |
| (d) Date Design Complete | 93 MAY 25 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 72 |
| (b) All Other Design Costs | 42 |
| (c) Total | 114 |
| (d) Contract | |
| (e) In-house | 114 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 740-884 | NKAK923003 | 2,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | SF | 23,200 | | 1,588 |
| ADDITION | SF | 8,300 | 89 | ( 739) |
| ALTERATION | SF | 14,900 | 57 | ( 849) |
| SUPPORTING FACILITIES | | | | 355 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 105) |
| SUBTOTAL | | | | 1,943 |
| CONTINGENCY (10%) | | | | 194 |
| TOTAL CONTRACT COST | | | | 2,137 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 128 |
| TOTAL REQUEST | | | | 2,265 |
| TOTAL REQUEST (ROUNDED) | | | | 2,250 |

10. Description of Proposed Construction: Concrete footings, foundations, and floor slab, masonry walls, brick veneer and hip roof. Includes space for reception area, administrative offices, classrooms, kitchen, mechanical room, fire protection, utilities and other necessary support. Air Conditioning: 60 Tons.

11. REQUIREMENT: 25,875 SF ADEQUATE: 0 SUBSTANDARD: 14,900 SF
PROJECT: Add to and alter child development center. (Current Mission)
REQUIREMENT: A facility is required to provide adequate space and environment for child development requirements and an atmosphere conducive to the needs of 345 dependent children of military and civilian personnel assigned to the base.
CURRENT SITUATION: The existing facility provides only two thirds of the space needed to adequately support child care needs. Inefficiencies include lack of classroom space, administration, food service area and recreational support area. Changes in the makeup of the military and civilian population have increased the need for full-day child care development services. Single parents, dual working couples, and working spouses have changed the focus from a recreational support activity to a mission support program. Because more children stay at the center ten hours a day, five days a week, improved developmental care facilities must provide more adequate indoor and outdoor play space, learning centers, sleeping facilities and kitchen/food service areas. Off-base child care centers are available; however, they are substandard in that they are not certified by the State of Arkansas and do not meet minimum Air Force and Department of Defense standards for child care. These facilities provide little more than custodial care. They experience an extremely high turn-over rate in workers because they pay minimum wages. Workers are not

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | | NKAK923003 |

screened for health problems and criminal records. Most facilities do not provide care for children under two years old. The Little Rock Child Development Center is the only facility in the State of Arkansas accredited by the National Association for the Education of Young Children. Some home care is available on base but not nearly enough to meet base child care demands. The waiting list for full-time day care is for 83 children; however, many families do not bother to sign-up because the list is too long.

IMPACT IF NOT PROVIDED: Lack of quality child care contributes to employee absenteeism, low morale and has a negative impact in the military and civilian workforces. Expanded program requirements and increased demand for child care cannot be provided due to lack of space.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, addition/alteration and new construction). This analysis indicates the addition/alteration alternative is the most cost effective. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | NKAK923003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 01 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 92 JUL 27 |
| (d) Date Design Complete | 93 JUL 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 135 |
| (b) All Other Design Costs | 90 |
| (c) Total | 225 |
| (d) Contract | 183 |
| (e) In-house | 42 |
| (4) Construction Start | 94 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| EDWARDS AIR FORCE BASE, CALIFORNIA | AIR FORCE MATERIEL COMMAND | 1.38 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 658 | 3610 | 3376 | | | | | | | 7,644 |
| b. End FY 1998 | 701 | 3300 | 2811 | | | | | | | 6,812 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 302,088) | |
| b. Inventory Total As Of: (30 SEP 92) | 599,802 |
| c. Authorization Not Yet In Inventory: | 67,300 |
| d. Authorization Requested In This Program: | 11,300 |
| e. Authorization Included In Following Program: (FY 1995) | 15,300 |
| f. Planned In Next Four Program Years: | 28,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 722,602 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS PHASE II | 38 EA | 5,400 | JUL 92 | SEP 93 |
| 740-884 | CHILD DEVELOPMENT CENTER | 35,000 SF | 5,900 | JUL 92 | NOV 93 |
| | | TOTAL: | 11,300 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | 5,200 LF | 2,600 |
| 211-152 | RENOVATE AIRCRAFT MAINTENANCE FACILITY | 234,500 SF | 8,000 |
| 311-115 | F-22 ALTER ENGINEERING TEST FACILITY, PHASE I | 43,900 SF | 4,700 |
| | | TOTAL: | 15,300 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 171-618 | FIELD TRAINING FACILITY | 10,000 SF | 1,700 |
| 211-152 | COMPOSITE AIRCRAFT REPAIR FACILITY | 25,000 SF | 5,600 |
| 411-000 | REPAIR LIQUID FUEL STORAGE | LS | 6,000 |
| 422-264 | EARTH COVERED STORAGE IGLOO | 2,000 SF | 1,200 |
| 740-253 | FAMILY SERVICE CENTER | 12,000 SF | 2,000 |

10. Mission or Major Functions: Air Force Flight Test Center which is responsible for flight test activities for all USAF aircraft & related avionics, flight control, & weapons systems (primary test aircraft include B-1, B-2, B-52, C-23, F-15, F-16, F-117, MC-130, OA-37, T-38 & UH-1); Air Force Test Pilot School; & Astronautics Directorate of the Phillips Lab. Major tenants include US Army Aviation Engineering Activity; NSAS Ames Dryden Flight Research Facility; and Jet Propulsion Laboratory test facility. Also, a landing site for the space shuttle.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EDWARDS AIR FORCE BASE, CALIFORNIA | UNDERGROUND FUEL STORAGE TANKS PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 411-135 | FSPM947302 | 5,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS, PHASE II | LS | | | 2,919 |
| CONSTRUCT ABOVE GROUND TANKS | EA | 30 | 40,330 | (1,210) |
| GAS CONNECTIONS AND BOILER CONVERSIONS | LS | | | (1,537) |
| FUEL DISPENSING SYSTEM | EA | 3 | 57,330 | ( 172) |
| SUPPORTING FACILITIES | | | | 1,705 |
| TANK REMOVAL | EA | 85 | 4,824 | ( 410) |
| SITE ASSESSMENT AND REMEDIATION | LS | | | ( 865) |
| UTILITIES | LS | | | ( 430) |
| SUBTOTAL | | | | 4,624 |
| CONTINGENCY (10%) | | | | 462 |
| TOTAL CONTRACT COST | | | | 5,086 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 305 |
| TOTAL REQUEST | | | | 5,391 |
| TOTAL REQUEST (ROUNDED) | | | | 5,400 |

10. Description of Proposed Construction: Remove 85 underground storage tanks (USTs) and replace them with approximately 30 above ground tanks (ASTs) where required or provide natural gas laterals and convert boilers to gas where economical. Install overfill and cathodic protection, and vapor recovery systems for ASTs. Install fuel dispensing systems at three locations.

11. REQUIREMENT: As required.

PROJECT: Remove 85 underground storage tanks and replace with 30 above ground tanks, phase 2 of 4. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Environmentally safe storage tanks are required to store petroleum products and other environmentally controlled substances, which are used in operating base gas stations, base shops, and laboratories. Underground tanks must comply with state or federal environmental regulations, whichever is more stringent. The California UST upgrade requirements under Title 23, Chapter 16, are similar to the Federal requirement contained under Resource Conservation and Recovery Act (RCRA) Subtitle I, 40 CFR Part 280 and 281. The rules require that all existing tanks be upgraded with leak detection, spill/overfill prevention, and cathodic protection (for steel tanks) by December 22, 1998.

CURRENT SITUATION: The existing 85 USTs, associated piping and dispensing systems do not meet applicable EPA requirements. The USTs at Edwards Air Force Base were installed in high alkali content soil, which promotes corrosion of the bare steel. There are 85 USTs, varying in capacity of up to 25,000 gallons, located throughout the base that will be replaced under this project. Until corrections are implemented, leasing of temporary tanks in some areas is required. This is the second phase of a four

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE II | FSPM947302 |

phased effort to upgrade tanks on this base.

IMPACT IF NOT PROVIDED: Edwards Air Force Base will continue to pose a threat of contaminating the environment with hazardous petroleum products. Additionally, the base can be served with Notices of Violation and the Air Force may be subjected to lawsuits and fines. Support of current and future test programs, such as the C-17, and the P-22 will be hampered by a lack of fuel storage facilities.

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could reasonably meet mission requirements. A certificate of exemption is being prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE II | FSPM947302 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 30 |
| (d) Date Design Complete | 93 SEP 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 310 |
| (b) All Other Design Costs | 150 |
| (c) Total | 460 |
| (d) Contract | |
| (e) In-house | 460 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EDWARDS AIR FORCE BASE, CALIFORNIA | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.06 | 740-884 | FSPM923018 | 5,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 35,000 | 125 | 4,375 |
| SUPPORTING FACILITIES | | | | 905 |
| UTILITIES | LS | | | ( 320) |
| SITE IMPROVEMENTS | LS | | | ( 205) |
| PAVEMENTS | LS | | | ( 185) |
| DEMOLITION | SF | 21,500 | 9 | ( 195) |
| SUBTOTAL | | | | 5,280 |
| CONTINGENCY (5%) | | | | 264 |
| TOTAL CONTRACT COST | | | | 5,544 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 333 |
| TOTAL REQUEST | | | | 5,877 |
| TOTAL REQUEST (ROUNDED) | | | | 5,900 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls and roof system. Include playground, pavements, utility extensions, landscaping, necessary support, and demolition of four buildings.
Air Conditioning: 60 Tons.

11. REQUIREMENT: 47,125 SF ADEQUATE: 12,150 SF SUBSTANDARD: 21,500 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: Adequate space to provide the necessary child care and preschool services for up to 500 dependents of military and DOD civilian personnel. This facility must provide separate primary care rooms for infants, toddlers, preschool and school age children up to age 12, an isolation area, kitchen, preschool class space, activity rooms, offices, staff training rooms, kitchen, storage and reception area.
CURRENT SITUATION: One adequate facility, 12,150 SF, supports approximately 225 children, well over its design capacity of 150 children. Two othe facilities are currently being used for other child care and preschool programs. A substandard building is being used as a preschool (3-5 years old) for classes of over 300 children. Built in 1951 and later relocated to its present location, this facility is in poor shape, is not properly configured, and has far exceeded its useful life. Also, space in an elementary school building is being used temporarily to ho:se after-school programs for approximately 65 children between the ages of five and twelve. Due to the remote location of Edwards Air Force Base, the nearest child care services are located approximately 38 miles from the base. Personnel who live and work at Edwards must drive approximately three hours a day (two round trips) exclusively for child care. Additionally, the cost of these services in local communities is 30-75%

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EDWARDS AIR FORCE BASE, CALIFORNIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| CHILD DEVELOPMENT CENTER | | FSPM923018 |

higher than the average cost of base services, further impacting the military family. Most of the off-base centers provide neither drop-in service nor care for children under 3 years of age. Due to the high usage rate of on-base facilities, drop-in care is often unavailable. The waiting list as of December 1991 is 100 children. Completion of this project will allow demolition of four substandard buildings totalling 21,500 SF.

IMPACT IF NOT PROVIDED: Adequate child care services will not be available for dependents of Edwards AFB employees. Personnel will be forced to seek other more expensive child care services at locations more than 38 miles off-base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | FSPM923018 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 NOV 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 300 |
| (b) All Other Design Costs | 150 |
| (c) Total | 450 |
| (d) Contract | |
| (e) In-house | 450 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MCCLELLAN AIR FORCE BASE, CALIFORNIA | AIR FORCE MATERIEL COMMAND | 1.14 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 442 | 2533 | 10039 | | | | | | | 13,014 |
| b. End FY 1998 | 417 | 2411 | 8455 | | | | | | | 11,283 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,752) | |
| b. Inventory Total As Of: (30 SEP 92) | 474,559 |
| c. Authorization Not Yet In Inventory: | 37,430 |
| d. Authorization Requested In This Program: | 1,900 |
| e. Authorization Included In Following Program: (FY 1995) | 11,350 |
| f. Planned In Next Four Program Years: | 95,100 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 620,339 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 880-232 | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | 196,000 SF | 1,900 | AUG 92 | NOV 93 |
| | | TOTAL: | 1,900 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRCRAFT PARKING APRON | 95,000 SY | 6,500 |
| 179-511 | FIRE TRAINING FACILITY | 1 EA | 950 |
| 871-183 | UPGRADE STORM DRAINAGE SYSTEM | 3,600 LF | 3,900 |
| | | TOTAL: | 11,350 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 141-764 | INTEGRATION SUPPORT FACILITY | 65,000 SF | 10,600 |
| 141-764 | ATF-SOFTWARE ENGINEERING ENVIRONMENT | 100,000 SF | 40,000 |
| 149-962 | CONTROL TOWER | 1 EA | 2,550 |
| 211-116 | IMPROVE DEPOT MAINTENANCE HANGAR | LS | 9,300 |
| 441-758 | WAREHOUSE FACILITY | 117,600 SF | 12,200 |

10. Mission or Major Functions: Sacramento Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of A-10, F/EF-111, and F-117 aircraft; Air Force Reserve's Headquarters Fourth Air Force and air refueling wing (KC-135 aircraft); Air Rescue Service; Air Mobility Command weather reconnaissance squadron (WC-135 aircraft) and airlift detachment (C-21 aircraft); and an Air Combat Command test and evluation squadron (F-111 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 9,500 |
| b. Water pollution: | 3,620 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 2,000 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No 81

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCLELLAN AIR FORCE BASE, CALIFORNIA | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 880-232 | PRJY881011 | 1,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | SF | 196,000 | 7 | 1,372 |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 1,612 |
| CONTINGENCY (10%) | | | | 161 |
| TOTAL CONTRACT COST | | | | 1,773 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 106 |
| TOTAL REQUEST | | | | 1,879 |
| TOTAL REQUEST (ROUNDED) | | | | 1,900 |

10. Description of Proposed Construction: Install aqueous film forming foam (AFFF) preaction sprinkler systems and wet pipe sprinkler systems in fifteen buildings, including piping, sprinkler heads, nozzles, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Install fire protection systems in fifteen buildings. (Current Mission)

REQUIREMENT: Automatic AFFF preaction systems are required to support critical base facilities and their contents, including multi-million dollar aircraft and equipment. These systems are needed to minimize hazard to life and property by quickly suppressing a fuel fire before injury or widespread damage can occur. This level of fire protection is consistent with standards developed by the National Fire Protection Association.

CURRENT SITUATION: There are no fire protection systems in fifteen docks used to accomplish depot maintenance of first line aircraft. A fire in any of these facilities could endanger the building, its contents and occupants. All of these buildings are needed to accomplish depot maintenance workloads assigned to the Sacramento Air Logistics Center.

IMPACT IF NOT PROVIDED: Loss of life, first line aircraft and equipment will remain a possibility. The total value of aircraft at risk could be as high as $650 million.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCLELLAN AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | PRJY881011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 19 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 24 |
| (d) Date Design Complete | 93 NOV 22 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 100 |
| (b) All Other Design Costs | 122 |
| (c) Total | 222 |
| (d) Contract | 139 |
| (e) In-house | 83 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | AIR MOBILITY COMMAND | 1.37 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1113 | 5997 | 2040 | 177 | 411 | | 5 | 16 | | 9,759 |
| b. End FY 1998 | 1032 | 5549 | 1996 | 177 | 411 | | 5 | 16 | | 9,186 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,927) | |
| b. Inventory Total As Of: (30 SEP 92) | 439,576 |
| c. Authorization Not Yet In Inventory: | 56,830 |
| d. Authorization Requested In This Program: | 14,040 |
| e. Authorization Included In Following Program: (FY 1995) | 9,450 |
| f. Planned In Next Four Program Years: | 31,560 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 551,436 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|
| 211-152 | AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | 66,900 SF | 11,200 | FEB 93 | DEC 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 2,840 | JUN 92 | DEC 93 |
| | | TOTAL: | 14,040 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | LS | 950 |
| 813-231 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 30,000 KV | 8,500 |
| | | TOTAL: | 9,450 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 171-618 | FIELD TRAINING FACILITY | 36,600 SF | 5,900 |
| 179-511 | FIREMEN TRAINING FACILITY | LS | 950 |
| 411-135 | REPAIR JET FUEL STORAGE | LS | 4,300 |
| 724-417 | VISITING OFFICERS QUARTERS | 100 PN | 7,000 |
| 826-123 | OVER 100 TONS A/C PLANT | 220 PN | 1,500 |

10. Mission or Major Functions: Headquarters Twenty-Second Air Force; an airlift wing which includes two C-5 and two C-141 squadrons; an Air Force Reserve associate airlift wing (C-5 and C-141 aircraft); a major Air Force medical center; and the largest aerial port on the west coast.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 4,300 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 211-152 | XDAT923002 | 11,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | SF | 66,900 | | 8,567 |
| GENERAL PURPOSE MAINTENANCE SHOPS | SF | 62,000 | 120 | ( 7,440) |
| NON-DESTRUCTIVE INSPECTION SHOP | SF | 4,900 | 230 | ( 1,127) |
| SUPPORTING FACILITIES | | | | 1,450 |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| UTILITIES | LS | | | ( 600) |
| PAVEMENTS | LS | | | ( 350) |
| DEMOLITION/ASBESTOS REMOVAL | SF | 67,000 | 6 | ( 400) |
| SUBTOTAL | | | | 10,017 |
| CONTINGENCY (5%) | | | | 501 |
| TOTAL CONTRACT COST | | | | 10,518 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 631 |
| TOTAL REQUEST | | | | 11,149 |
| TOTAL REQUEST (ROUNDED) | | | | 11,200 |

10. Description of Proposed Construction: Metal, concrete facility with sloped roof. Area includes space for maintenance management non-destructive inspection, aircraft maintenance, training, and storage. Includes utilities, fire protection, pre-wired workstations asbestos removal, demolition and other necessary support.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 131,633 SF ADEQUATE: 21,158 SF
SUBSTANDARD: 122,566 SF
PROJECT: Construct aircraft general purpose maintenance shop. (Current Mission)
REQUIREMENT: Adequate aircraft maintenance space for fabrication and structural repair, cleaning and degreasing operations, hydraulics repair, battery shop, wheel and tire shop, maintenance management and storage of aircraft parts to support assigned C-5 and C-141 aircraft. Space is also required to support field level non-destructive inspection (NDI) of aircraft components.
CURRENT SITUATION: The existing aircraft general purpose shop is a 38-year-old wooden facility which has deteriorated beyond economical repair. Wooden support columns have cracked and twisted 30 degrees. They have been reinforced by installing metal plates. The support beams are also cracked and have weakened to the point that additional steel beams have been installed to provide temporary support. Ventilation of some shop space is non-existent. The work area, while adequate in gross size, does not provide adequate work space because it cannot be configured properly to support desired equipment layout. Extra steel support beams that were installed to support the roof prohibit safe layout of equipment. Minimal space between equipment cannot be provided. Some equipment throws off hot

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| TRAVIS AIR FORCE BASE, CALIFORNIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | | XDAT923002 |

steel shavings and workers using adjacent equipment must interrupt their work to maintain safe working distances between operating machines. Wing safety has identified this safety deficiency with a risk assessment code (RAC) 3. No other facilities exist on base that could be used to support this function. The existing 67,000 SF facility will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Aircraft maintenance and parts repair will continue to be performed in a substandard, poorly configured facility which reduces productivity. Due to unsafe conditions, there is an increased possibility that loss of life or serious injusy could occur.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation and new construction). This analysis indicates the new construction is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT GENERAL PURPOSE MAINTENANCE SHOP | XDAT923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 92 AUG 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 DEC 29 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 560 |
| (b) All Other Design Costs | 340 |
| (c) Total | 900 |
| (d) Contract | 810 |
| (e) In-house | 90 |

(4) Construction Start 94 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | UNDERGROUND FUEL STORAGE TANKS (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 411-135 | XDAT943075 | 2,840 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | LS | | | 2,400 |
| UPGRADE UNDERGROUND STORAGE TANKS | EA | 7 | 40,000 | ( 280) |
| CONSTRUCT UNDERGROUND STORAGE TANKS | EA | 10 | 107,000 | (1,070) |
| CONSTRUCT ABOVEGROUND STORAGE TANKS | EA | 14 | 75,000 | (1,050) |
| SUBTOTAL | | | | 2,400 |
| CONTINGENCY (10%) | | | | 240 |
| TOTAL CONTRACT COST | | | | 2,640 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 158 |
| TOTAL REQUEST | | | | 2,798 |
| TOTAL REQUEST (ROUNDED) | | | | 2,840 |

10. Description of Proposed Construction: Upgrade 7 tanks and their pressurized lines with leak detection. Replace 10 existing tanks with new double-walled underground tanks, leak detectors and other necessary support. In addition, replace another 14 underground tanks with aboveground tanks.

11. REQUIREMENT: As required.

PROJECT: Upgrade underground fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project to upgrade underground storage tanks (USTs) regulated by the California State Water Resources Control Board (CSWRCB). This board has set standards that require all regulated USTs to have leak detection, corrosion protection, and spill/overflow prevention systems. If USTs are to be replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible.

CURRENT SITUATION: The majority of the USTs at Travis have exceeded their design lives and are in need of replacement. Approximately 97% of the regulated USTs are also out of compliance with current (1988) state regulations. All of the regulated USTs require annual integrity (tightness) testing, daily fluid level monitoring and monthly inventory reconciliation and control, since they lack the proper continuous monitoring appliances and controls. If these tasks are not performed, the exposure to environmental liability will increase. These liabilities can be eliminated through the installation of the new USTs or aboveground storage tanks (ASTs) and associated continuous monitoring/alarm systems.

IMPACT IF NOT PROVIDED: Failure to bring the USTs into environmental compliance will result in Travis AFB receiving a Notice of Violation (NOV) from the regulators. This will ultimately result in fines or litigation

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | XDAT943075 |

and unfavorable publicity for the Air Force. All tanks must meet regulations or be permanently closed. The absence of sufficient fuel storage due to mandatory tank closure would seriously jeopardize the base's mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that satisfies regulatory requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | XDAT943075 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 31 |
| (d) Date Design Complete | 94 JAN 05 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 65 |
| (b) All Other Design Costs | |
| (c) Total | 65 |
| (d) Contract | 65 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | AIR FORCE SPACE COMMAND | 1.36 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 667 | 2650 | 1226 | | | | | | | 4,543 |
| b. End FY 1998 | 638 | 2405 | 1217 | | | | | | | 4,260 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 98,831) | |
| b. Inventory Total As Of: (30 SEP 92) | 1,058,848 |
| c. Authorization Not Yet In Inventory: | 67,750 |
| d. Authorization Requested In This Program: | 20,728 |
| e. Authorization Included In Following Program: (FY 1995) | 11,710 |
| f. Planned In Next Four Program Years: | 17,700 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 1,176,736 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 141-391 | SLFI - TPQ-18 RADAR FACILITY | 6,100 | SF | 2,408 | SEP 92 | SEP 93 |
| 319-995 | HARDWARE STORAGE FACILITY | 17,000 | SF | 3,500 | NOV 92 | JAN 94 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 36 | EA | 1,700 | TURN KEY | |
| 812-223 | SLFI - UPGRADE ELECTRICAL SYSTEM | | LS | 11,520 | SEP 91 | SEP 93 |
| 880-234 | SLFI - UPGRADE FIRE PROTECTION SYSTEM | | LS | 1,600 | SEP 92 | SEP 93 |
| | | TOTAL: | | 20,728 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | | |
|---|---|---|---|---|---|---|
| 141-766 | SLFI - CHEMICAL TEST AND ANALYSIS LABORATORY | 14,600 | SF | 4,200 | | |
| 179-511 | FIRE TRAINING FACILITY | | LS | 1,550 | | |
| 824-464 | SLFI - UPGRADE NATURAL GAS SYSTEM | | LS | 5,960 | | |
| | | TOTAL: | | 11,710 | | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | | | |
|---|---|---|---|---|---|---|
| 131-000 | COMMUNICATIONS MANAGEMENT FACILITY | 10,000 | SF | 1,300 | | |
| 179-475 | COMBAT ARMS SECURITY TRAINING RANGE | 3,200 | SF | 1,300 | | |
| 312-476 | DMSP SATELLITE PROCESSING FACILITY | 8,600 | SF | 3,200 | TURN KEY | |
| 724-417 | VISITING OFFICERS QTRS, PH 1 | 120 | PN | 4,900 | | |
| 831-155 | INDUSTRIAL WASTEWATER TREATMNT | | LS | 7,000 | | |

10. Mission or Major Functions: Headquarters Twentieth Air Force; a space wing which is responsible for operational and test launches of missiles, satellites, and space vehicles in polar orbits and for research and development of missile and space systems; a test wing responsible for ICBM operations test and evaluation launches; a missile evaluation squadron; a combat air rescue detachment (UH-1 helicopters); and an Air Training Command missile crew training squadron.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION<br>VANDENBERG AIR FORCE BASE,<br>CALIFORNIA | 4. COMMAND<br>AIR FORCE<br>SPACE COMMAND | 5. AREA CONST<br>COST INDEX<br>1.36 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 1,550 |
| b. Water pollution: | 4,700 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | SLFI - TPQ-18 RADAR FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.81 | 141-391 | XUMU885002 | 2,408 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI - TPQ-18 RADAR FACILITY | SF | 5,400 | 210 | 1,134 |
| SUPPORTING FACILITIES | | | | 1,015 |
| RADAR PEDESTAL | LS | | | ( 315) |
| UTILITIES | LS | | | ( 285) |
| SITE IMPROVEMENTS | LS | | | ( 195) |
| PAVEMENTS | LS | | | ( 155) |
| DEMOLITION OF TEMPORARY FACILITIES | LS | | | ( 65) |
| SUBTOTAL | | | | 2,149 |
| CONTINGENCY (5%) | | | | 107 |
| TOTAL CONTRACT COST | | | | 2,256 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 135 |
| TOTAL REQUEST | | | | 2,391 |
| TOTAL REQUEST (ROUNDED) | | | | 2,408 |

10. Description of Proposed Construction: Concrete block building, concrete floor slab and foundation, raised flooring, truss and column steel frame, metal deck/built-up roof system and fire protection system. Includes necessary utilities, site prep, and roads and parking.
Air Conditioning: 115 Tons.

11. REQUIREMENT: 5,971 SF ADEQUATE: 571 SF SUBSTANDARD: 0
PROJECT: Construct a permanent facility to house the TPQ-18 radar. (Current Mission)
REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. A permanent, reliable facility is required to support installation of new equipment, radar mods, and for improving operations and maintenance of the AN/TPQ-18 radar to support launch operations. This facility is required to support critical missions such as Titan, Scout, Minuteman, Atlas, Pegasus, Shuttle Operations, SDI work, and Edwards AFB test programs. This radar provides: a clear picture of missile trajectory to range safety; data collection for evaluation of the missile and test equipment; a picture of the performance of re-entry vehicles (simulated warheads); and pictures and data from a satellite in orbit. This radar must be operational in order to launch a missile.
CURRENT SITUATION: The radar system is presently housed in 11 separate portable shelters with the associated cables to connect the various data and power circuits. The existing facilities, at their current location for 32 years, were originally intended as mobile shelters; however, the requirements have evolved to the point that a permanent facility is needed. There are 10 air conditioners used to cool the shelters. Consolidating the air conditioners into one system would save $15,000/yr and collocating the radar system into one building would yield energy

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| VANDENBERG AIR FORCE BASE, CALIFORNIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| SLFI - TPQ-18 RADAR FACILITY | | XUMU885002 |

savings of $8,000/yr. The temporary shelters and old cabling have deteriorated due to exposure to the elements, thus jeopardizing the ability to support the mission. Most of these shelters leak during rains, exposing valuable equipment to water damage; and the poor condition of these shelters allows rodents to enter, additionally exposing equipment and cabling to damage. These existing facilities have exceeded their useful life and cannot be economically upgraded. Valuable data was lost during a launch when exposed electrical cabling failed (the existing facility did not provide adequate protection against the weather).
IMPACT IF NOT PROVIDED: Existing cabling and equipment will continue to be susceptible to both environmental and pest damage; and facilities will not offer the degree of protection, functional space, or utility support needed to accommodate state-of-the art equipment. Vandenberg AFB is the only base from which polar-orbiting satellites may be launched. With the passing of time, the reliability of this radar site will become even worse; and without the needed building and equipment upgrades, this radar site will be less able to support the various, strategically important missions.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - TPQ-18 RADAR FACILITY | XUMU885002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 21 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 140 |
| (b) All Other Design Costs | 70 |
| (c) Total | 210 |
| (d) Contract | 175 |
| (e) In-house | 35 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | HARDWARE STORAGE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.41.11 | 319-995 | XUMU923002 | 3,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| HARDWARE STORAGE FACILITY | SF | 17,000 | 110 | 1,870 |
| SUPPORTING FACILITIES | | | | 1,255 |
| UTILITIES | LS | | | ( 300) |
| PAVEMENTS | SY | 6,000 | 38 | ( 230) |
| SITE PREPARATION | LS | | | ( 150) |
| 10 TON BRIDGE CRANES | EA | 2 | 212,500 | ( 425) |
| SECURITY SYSTEMS | LS | | | ( 150) |
| SUBTOTAL | | | | 3,125 |
| CONTINGENCY (5%) | | | | 156 |
| TOTAL CONTRACT COST | | | | 3,281 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 197 |
| TOTAL REQUEST | | | | 3,478 |
| TOTAL REQUEST (ROUNDED) | | | | 3,500 |

10. Description of Proposed Construction: Masonry building with reinforced concrete foundations, concrete floor slabs, and roof system. Includes bridge cranes, fence, electronic security system, utilities and necessary support.
Air Conditioning: 70 Tons.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a hardware storage facility. (New Mission)
REQUIREMENT: A secure storage facility is required for the Titan IV rocket program for handling space vehicle (SV) ground support equipment. This facility will provide secure, environmentally controlled space for storing SV support equipment in transit from the airfield or payload processing facilities to its launch complex. The reuseable transporters, containers, slings, and other items which normally accompany a SV must remain for contingency operations, in a secure, environmentally controlled facility, until mission completion.
CURRENT SITUATION: There are no suitable facilities on Vandenberg AFB for the storage of all space vehicle associated items. Additionally, there is no space which could be converted to this function.
IMPACT IF NOT PROVIDED: Space launch requirements would force storage of SV related items in unsecured areas. The Air Force continues to run the risk of compromising high-priority classified space flight systems.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2. Space requirements were based on the size and quantity of the stored equipment. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| HARDWARE STORAGE FACILITY | XUMU923002 |

certificate of exemption has been prepared.

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| HARDWARE STORAGE FACILITY | XUMU923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 13 |
| (b) Percent Complete as of Jan 93 | 20% |
| (c) Date 35% Designed | 93 MAR 12 |
| (d) Date Design Complete | 94 JAN 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 210 |
| (b) All Other Design Costs | 108 |
| (c) Total | 318 |
| (d) Contract | |
| (e) In-house | 318 |
| (4) Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.58.56 | 411-135 | XUMU924005 | 1,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 336 |
| REPLACE FUEL STORAGE TANKS | EA | 8 | 42,000 | ( 336) |
| SUPPORTING FACILITIES | | | | 1,110 |
| EXCAVATE CONTAMINATED SOIL & TEST | LS | | | ( 500) |
| LEAK DETECTION | EA | 8 | 6,250 | ( 50) |
| REMOVE 12 STORAGE TANKS | EA | 12 | 30,000 | ( 360) |
| CONCRETE WORK, DISPENSERS, & PIPING | LS | | | ( 200) |
| SUBTOTAL | | | | 1,446 |
| CONTINGENCY (10%) | | | | 145 |
| TOTAL CONTRACT COST | | | | 1,591 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 95 |
| TOTAL REQUEST | | | | 1,686 |
| TOTAL REQUEST (ROUNDED) | | | | 1,700 |

10. Description of Proposed Construction: Includes excavation and removal of 11 underground and 1 aboveground fuel tanks and piping and dispensing systems. Replace with eight double-walled storage tanks, including associated piping, leak detection, new dispensers, and islands. Dispose of old tanks and residual fuels. Test for further contamination and remove soil as required.

11. REQUIREMENT: As required.
PROJECT: Replace underground storage tanks (USTs). (Current Mission)
REQUIREMENT: This is a Level I environmental compliance requirement. Tanks must be in compliance with DoD, federal, and state environmental regulations. These include the AF UST Management Strategy, Federal Regulation 40 CFR 280, and State of California, and Santa Barbara County regulations. The State of California required tanks to have leak detection systems by 1 Jan 1989. If USTs are to be replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible.
CURRENT SITUATION: The USTs are between 9 and 35 years old and will be out of compliance with the County of Santa Barbara in FY 94 if not removed or upgraded in accordance with the interagency agreement between the base and the county. Tanks are single-wall, some with a history of leaks. Gasoline pump dispensers are severely deteriorated due to weathering. Soil surrounding the tanks has been badly contaminated by either leaks and/or spills due to filling operations. Soil must be removed and disposed of in an environmentally responsible manner. This UST issue is being closely monitored by Santa Barbara County Environmental Health Services and the Regional Water Quality Control Board.
IMPACT IF NOT PROVIDED: Without replacement and/or removal, USTs at

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | XUMU924005 |

Vandenberg AFB will be out of compliance and subject to legal ramifications. Not only will the tanks be out of compliance, but the soil in the vicinity of these USTs would remain contaminated, and this is also a violation of regulatory standards. In addition, allowing hazardous products to remain in the soil violates California State Water Quality Control Board regulations. Ground water could become extensively contaminated with the passage of time. Ground water contamination cleanup can be an extremely expensive and lengthy process. These USTs could cause escalation of the existing environmental problem.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | XUMU924005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 102

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | SLFI - UPGRADE ELECTRICAL SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.81 | 812-223 | XUMU954006 | 11,520 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI - UPGRADE ELECTRICAL SYSTEM | LS | | | 9,873 |
| ELECT SERVICE, RANGE OPS CTR | LS | | | ( 762) |
| ELECT SERV, LAUNCH FACILITIES | LS | | | ( 3,729) |
| ELECT SERV, VTS & RADAR | LS | | | ( 865) |
| ELECT SERV, CRITICAL FACS | LS | | | ( 2,454) |
| SUPERVISORY CONTROL & DATA ACQUISITION | LS | | | ( 2,063) |
| SUBTOTAL | | | | 9,873 |
| CONTINGENCY (10%) | | | | 987 |
| TOTAL CONTRACT COST | | | | 10,860 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 652 |
| TOTAL REQUEST | | | | 11,512 |
| TOTAL REQUEST (ROUNDED) | | | | 11,520 |

10. Description of Proposed Construction: Upgrade the 12 KV electrical basewide system. Upgrade/relocate distribution lines, retrofill/upgrade transformers, replace breakers/insulators/switches, provide new switchgear and shelters, provide relaying systems, install voltage drop and power factor correction devices, and provide a computerized monitoring capability for the entire system.

11. REQUIREMENT: As required.
PROJECT: Upgrade electrical system. (Current Mission)
REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. This base supports DoD and NASA missions vital to our defense. This is the only base from which a polar-orbiting satellite can be launched. The high-voltage electrical system must be capable of providing sufficient, reliable electrical capacity for these missions. The system must perform with minimum impact or damage to electronic equipment in spite of current surges, lines that go to ground, and lightning. A computerized monitoring system is required to monitor the entire system and provide rapid response to correct problems.
CURRENT SITUATION: The existing 12 KV electrical system has become unreliable for missile launches; thus it is bypassed during certain launch-critical operations. These operations must then be powered by local, on-site generators. Forecasted voltage drops must be precluded to avoid damage to valuable electronic equipment, motors, and other electrical devices. When a power outage occurs, personnel must physically seek out the problem, consuming valuable time; whereas, modern monitoring systems can identify the location of problems as they occur. The corrosive environment (fog and salt) at this location shortens life expectancies of electrical distribution system components; insulators

| 1. COMPONENT | .FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE ELECTRICAL SYSTEM | XUMU954006 |

deteriorate and are prone to flashovers. Power poles, circuit breakers, and transformers should be replaced. Relay systems need to be upgraded. Power lines need to be relocated to improve accessibility.

IMPACT IF NOT PROVIDED: The mission of this base cannot be properly executed without these needed upgrades. If no action is taken, this 12 KV electrical system will continue to deteriorate. Resulting voltage drops will begin to take their toll on launches and important mission-related equipment. During brown-outs, lights will flicker and dim, and electronic equipment and motors will be damaged.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE ELECTRICAL SYSTEM | XUMU954006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 SEP 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 JUL 29 |
| (d) Date Design Complete | 93 SEP 03 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 708 |
| (b) All Other Design Costs | 357 |
| (c) Total | 1065 |
| (d) Contract | 862 |
| (e) In-house | 203 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | SLFI - UPGRADE FIRE PROTECTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.81 | 880-234 | XUMU910130 | 1,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI-UPGRADE FIRE PROTECTION SYSTEM | LS | | | 1,128 |
| SPRINKLER SYSTEM | SF | 141,000 | 8 | (1,128) |
| SUPPORTING FACILITIES | | | | 260 |
| REPLACE WOODEN PARTITIONS | LS | | | ( 120) |
| ALARM SYSTEM | LS | | | ( 140) |
| SUBTOTAL | | | | 1,388 |
| CONTINGENCY (10%) | | | | 139 |
| TOTAL CONTRACT COST | | | | 1,527 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 92 |
| TOTAL REQUEST | | | | 1,619 |
| TOTAL REQUEST (ROUNDED) | | | | 1,600 |

10. Description of Proposed Construction: Install integrated fire detection system with electronic control panels and state-of-the-art sensors. Install sprinkler system. Replace wooden partitions with fireproof materials to meet current Life Safety Codes.

11. REQUIREMENT: As required.

PROJECT: Install fire protection system in the Titan Test and Support Facility. (Current Mission)

REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. Provide fire detection and suppression systems to the Titan Test & Support Facility as required by AFR 88-15.

CURRENT SITUATION: With no fire suppression or detection systems, this facility fails to meet USAF life safety code standards. The building contains costly data & test equipment and a launch support (fuel handling) trailer. In the event of a fire, personnel assigned to the facility must operate pull-stations, alarmed only to this building. Wooden partitions on the shop floor of the high-bay area would promote rapid spread of a fire, posing extreme threat to personnel, space vehicle components, and other critical assets.

IMPACT IF NOT PROVIDED: Without sprinkler protection or an adequate fire alarm system, personnel face high fire risk, and the facility and contents are subject to total loss, significantly impacting the launch program. Loss of functional capabilities to the Titan Test and Support Facility would result in the inability to support Titan launches and would necessitate delaying launches. Due to the critical timing and scheduling of the national information and security payloads, this would have a significant impact on national defense.

ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE FIRE PROTECTION SYSTEM | XUMU910130 |

Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE FIRE PROTECTION SYSTEM | XUMU910130 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 21 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 28 |
| (d) | Date Design Complete | 93 SEP 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 95 |
| (b) | All Other Design Costs | 50 |
| (c) | Total | 145 |
| (d) | Contract | 120 |
| (e) | In-house | 25 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION CLASSIFIED LOCATIONS (INSIDE AND OUTSIDE THE UNITED STATES) | 4. COMMAND | 5. AREA CONST COST INDEX 0.00 |
|---|---|---|

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 13,640 |
| e. Authorization Included In Following Program: (FY 1995) | 44,200 |
| f. Planned In Next Four Program Years: | 119,800 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 177,640 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 100-000 | SPECIAL TACTICAL UNIT DETACHMENT FACILITY | | LS | 5,540 | | |
| 100-000 | OMEGA FACILITIES | | LS | 2,600 | | |
| 442-758 | WAR READINESS MATERIEL WAREHOUSE | 120,000 | SF | 5,500 | MAY 92 | SEP 93 |
| | | TOTAL: | | 13,640 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | | |
|---|---|---|---|---|---|---|
| 100-000 | SPECIAL TACTICAL UNIT DETACHMENT FACILTIY | | LS | 2,140 | | |
| 100-000 | EUROPEAN GROUND STATION | | LS | 16,800 | | |
| 100-000 | VARIOUS FACILITIES | | LS | 2,060 | | |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 2,000 | | |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 5,200 | | |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 2,100 | | |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 9,600 | | |
| 217-742 | WAR READINESS MATERIEL MAINTENANCE/MANAGEMENT FAC | 10,000 | SF | 1,300 | | |
| 442-515 | WAR READINESS MATERIEL MEDICAL STORAGE FACILITY | 18,000 | SF | 1,800 | | |
| 452-252 | WAR READINESS MATERIEL OPEN STORAGE FACILITY | 62,000 | SF | 1,200 | | |
| | | TOTAL: | | 44,200 | | |

9b. Future Projects: Typical Planned Next Four Years:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No 108

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CLASSIFIED LOCATION | SPECIAL TACTICAL UNIT DETACHMENT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.72.48 | 100-000 | PAYZ944445 | 5,540 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SPECIAL TACTICAL UNIT DETACHMENT FACILITY | LS | | | 5,540 |
| SUBTOTAL | | | | 5,540 |
| TOTAL CONTRACT COST | | | | 5,540 |
| TOTAL REQUEST | | | | 5,540 |
| TOTAL REQUEST (ROUNDED) | | | | 5,540 |

10. Description of Proposed Construction: Construct a Special Tactical Unit Detachment Facility.

11. REQUIREMENT: As required.

REQUIREMENT: See classified DD Form 1391.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CLASSIFIED LOCATIONS | OMEGA FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.91 | 100-000 | PAYZ944446 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| OMEGA FACILITIES | LS | | | 2,600 |
| SUBTOTAL | | | | 2,600 |
| TOTAL CONTRACT COST | | | | 2,600 |
| TOTAL REQUEST | | | | 2,600 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Construct OMEGA facilities.

11. REQUIREMENT: As required.

REQUIREMENT: See classified DD Form 1391.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| BUCKLEY AIR NATIONAL GUARD BASE, COLORADO | | 0.96 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 79 | 547 | 300 | | | | | | | 926 |
| b. End FY 1998 | 76 | 522 | 311 | | | | | | | 909 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,897) | |
| b. Inventory Total As Of: (30 SEP 92) | 68,341 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 39,000 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 3,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 111,241 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 131-134 | DATA PROCESSING, RESEARCH, AND TRAINING FACILITY | 217,700 SF | 39,000 | JUN 92 | AUG 93 |
| | | TOTAL: | 39,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 890-272 | INSTALL EMCS AND REPLACE HVAC IN TECH BUILDING | LS | 3,900 |

10. Mission or Major Functions: Colorado Air National Guard Headquarters with T-43s and the ANG 140th Tactical Fighter Wing flying a A-7D aircraft. Other units include 1810 Communications Group, 2 Communications Squadron and Det 3, Space Division.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No 111

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BUCKLEY AIR NATIONAL GUARD BASE, COLORADO | DATA PROCESSING, RESEARCH, AND TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.41.11 | 131-134 | CRWU939530 | 39,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DATA PROCESSING, RESEARCH, AND TRAINING FACILITY | SF | 176,000 | 125 | 22,000 |
| SUPPORTING FACILITIES | | | | 12,700 |
| UTILITIES | LS | | | ( 5,000) |
| PAVEMENTS | LS | | | ( 1,200) |
| SITE IMPROVEMENTS | LS | | | ( 800) |
| ENTRY CONTROL BUILDING | LS | | | ( 700) |
| BACK-UP POWER | LS | | | ( 4,000) |
| O&M MANUALS/COMMUNICATIONS SUPPORT | LS | | | ( 1,000) |
| SUBTOTAL | | | | 34,700 |
| CONTINGENCY (5%) | | | | 1,735 |
| TOTAL CONTRACT COST | | | | 36,435 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 2,186 |
| TOTAL REQUEST | | | | 38,621 |
| TOTAL REQUEST (ROUNDED) | | | | 39,000 |

10. Description of Proposed Construction: Concrete foundation and floor slab, steel frame with precast concrete walls and built-up roof; includes large Sensitive Compartmented Information Facility (SCIF), raised flooring, entry control facility, pre-wired workstations , back-up generator, connection to EMCS and base utilities, upgrade of base utilities, paving and necessary support.
Air Conditioning: 2000 Tons.

11. REQUIREMENT: 200,000 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a data processing facility. (New Mission)
REQUIREMENT: A facility is required to provide the Department of Defense with physically and electronically secure space for processing and reporting classified data. The facility is required in support of a DX Brickbat FAD I priority program. It includes areas that will be staffed 24 hours per day as well as analysis and administrative areas, a SCIF area comprising more than half the building, and computer equipment areas. It will be staffed by approximately 750 military, civilian and contractor personnel. An entry control facility is required for perimeter security. The facility is required by June 1996.
CURRENT SITUATION: This is a new requirement and suitable existing facilities are not available.
IMPACT IF NOT PROVIDED: Without this facility, this new mission and its supporting capabilities cannot be performed.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BUCKLEY AIR NATIONAL CUARD BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DATA PROCES.ING, RESEARCH, AND TRAINING FACILITY | CRWU939530 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 12 |
| (b) Percent Complete as of Jan 93 | 30% |
| (c) Date 35% Designed | 93 FEB 12 |
| (d) Date Design Complete | 93 AUG 12 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 2320 |
| (b) All Other Design Costs | 1206 |
| (c) Total | 3526 |
| (d) Contract | 200 |
| (e) In-house | 3326 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CHEYENNE MOUNTAIN AIR FORCE BASE, COLORADO | AIR FORCE SPACE COMMAND | 1.08 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 195 | 838 | 147 | | | | | | | 1,180 |
| b. End FY 1998 | 187 | 767 | 146 | | | | | | | 1,100 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 519) | |
| b. Inventory Total As Of: (30 SEP 92) | 73,504 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 4,450 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 77,954 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 812-225 | UPGRADE ELECTRICAL SERVICE | 25,000 LF | 4,450 | NOV 92 | SEP 93 |
| | | TOTAL: | 4,450 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A support group; a command and control squadron; and the North American Defense Command command post.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CHEYENNE MOUNTAIN AIR FORCE BASE, COLORADO | UPGRADE ELECTRICAL SERVICE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.59.96 | 812-225 | SAXC943001 | 4,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE ELECTRICAL SERVICE | LS | | | 3,962 |
| PRIMARY UNDERGROUND DIST LINE | LF | 25,000 | 39 | ( 975) |
| SUBSTATION | LS | | | (2,495) |
| SECONDARY FEEDERS | LF | 6,000 | 82 | ( 492) |
| SUPPORTING FACILITIES | | | | 10 |
| SITE WORK | LS | | | ( 10) |
| SUBTOTAL | | | | 3,972 |
| CONTINGENCY (5%) | | | | 199 |
| TOTAL CONTRACT COST | | | | 4,171 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 250 |
| TOTAL REQUEST | | | | 4,421 |
| TOTAL REQUEST (ROUNDED) | | | | 4,450 |

10. Description of Proposed Construction: Construct a new primary underground electrical feeder from the Bradley substation (city owned), replace the existing base substation transformers with higher capacity transformers, and upgrade secondary feeders from the substation to the interior complex.

11. REQUIREMENT: As required.

PROJECT: Increase the capacity of the Cheyenne Mountain AFB electrical substation and provide upgraded commercial electrical service to the mission centers by providing a new underground feeder. (Current Mission)

REQUIREMENT: Reliable electrical power (99.999 reliability) is required to support the NORAD command post and USSPACECOM operations centers which comprise the nerve center for warning of missile, space, or air attack on North America. The Federal Emergency Management Agency Control Center, which is also within the Cheyenne Mountain Complex (CMC), also requires reliable power. The importance of these missions requires that backup commercial power be as reliable as possible. Larger capacity transformers and secondary feeders are required to provide adequate redundant power to the mission support distribution system.

CURRENT SITUATION: The Cheyenne Mountain Complex currently operates with a combination of commercial and on-site generator power. Presently, the base power plant provides generator supplied power in support of mission requirements. The six 1750 KW generators of this facility are approaching 30 years of service and are operating at maximum designed capacity. In the event of a loss of generator capability, the mission centers in the complex would operate 100% on commercial power. Upgraded commercial electrical power is necessary to sustain the power demands of the mission centers should persistent generator failure occur. The current commercial

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CHEYENNE MOUNTAIN AIR FORCE BASE, COLORADO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE ELECTRICAL SERVICE | | SAXC943001 |

capability is limited to 5000 KVA and the near term (1993-1994) projected commercial requirement is 8500 KVA. A P-341 MILCON project has been approved for FY 92 to construct an additional power feeder from the installation's substation which will allow full use of the existing commercial substation capacity. While providing a temporary solution to the under-capacity problem, that project will not provide the full redundancy required for future operations. This lack of redundant capacity from the primary commercial source is not correctable without upgrading the present system, and is a threat to uninterrupted mission operations.

IMPACT IF NOT PROVIDED: A catastrophic power loss would be devastating to the US and Canada's ability to provide warning and assessment of tactical, sea-launched, and intercontinental missile launches, and to support such contingencies as Operation Desert Storm. If commercial service is interrupted for any of a number of reasons (lightning, downed lines, etc), the present commercial system would not be capable of meeting the total load and would require load shedding, resulting in possible disruption of mission-critical sensor and computer analysis systems which provide Missile Warning and Space Surveillance capabilities. The capability to sound the alarm of an attack may be jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". No other known alternative options were acceptable; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CHEYENNE MOUNTAIN AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE ELECTRICAL SERVICE | SAXC943001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 NOV 18 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 23 |
| (d) Date Design Complete | | 93 SEP 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 204 |
| (b) All Other Design Costs | | 125 |
| (c) Total | | 329 |
| (d) Contract | | 264 |
| (e) In-house | | 65 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| PETERSON AIR FORCE BASE, COLORADO | AIR FORCE SPACE COMMAND | 0.96 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1304 | 1828 | 1559 | 8 | 7 | 1 | | | | 4,707 |
| b. End FY 1998 | 1077 | 1548 | 1631 | 8 | 7 | 1 | | | | 4,272 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 1,280) | |
| b. Inventory Total As Of: (30 SEP 92) | 139,870 |
| c. Authorization Not Yet In Inventory: | 32,350 |
| d. Authorization Requested In This Program: | 21,030 |
| e. Authorization Included In Following Program: (FY 1995) | 19,050 |
| f. Planned In Next Four Program Years: | 45,800 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 258,100 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 141-764 | ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | 104,000 SF | 16,400 | SEP 92 | DEC 93 |
| 218-868 | PRECISION MEASUREMENT EQUIPMENT LABORATORY | 9,700 SF | 2,200 | NOV 92 | AUG 93 |
| 311-174 | TEST AND EVALUATION SUPPORT FACILITY | 12,400 SF | 2,430 | OCT 92 | JUN 93 |
| | | TOTAL: | 21,030 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 141-459 | COMMAND AND CONTROL SUPPORT FACILITY, PHASE I | 72,000 SF | 8,000 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 16 EA | 1,750 |
| 610-249 | ADD TO CONSOLIDATED WING OPERATIONS & SUPPORT FACILITY | 32,000 SF | 5,300 |
| 721-312 | ADD TO AND ALTER DORMITORY, PHASE IV | 134 PN | 4,000 |
| | | TOTAL: | 19,050 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 442-758 | SUPPLY WAREHOUSE | 84,000 SF | 8,000 |
| 610-249 | SPACE SUPPORT CENTER | 90,000 SF | 10,800 |
| 730-142 | FIRE STATION | 19,900 SF | 4,000 |
| 740-884 | ADD TO AND ALTER CHILD CARE CENTER | 1,050 SF | 1,000 |
| 812-224 | BASE ELECTRICAL UPGRADE | LS | 6,000 |

10. Mission or Major Functions: Headquarters United States Space Command; Headquarters Air Force Space Command; Headquarters North American Air Defense Command; Space and Warning Systems Center; AFSPACECOM Inspection Center; a space wing; an Air Force Reserve airlift wing (C-130 aircraft); and an Air Mobility Command airlift detachment (C-21 aircraft).

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| PETERSON AIR FORCE BASE, COLORADO | AIR FORCE SPACE COMMAND | 0.96 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,750 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PETERSON AIR FORCE BASE, COLORADO | ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 141-764 | TDKA943005 | 16,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | LS | | | 11,700 |
| ADDITION | SF | 104,000 | 110 | (11,440) |
| ALTERATION | LS | | | ( 260) |
| SUPPORTING FACILITIES | | | | 2,995 |
| UTILITIES | LS | | | ( 580) |
| PAVEMENTS | SY | 12,000 | 34 | ( 410) |
| SITE IMPROVEMENTS | LS | | | ( 340) |
| PRE-WIRED WORK STATIONS | EA | 425 | 3,282 | ( 1,395) |
| COMMUNICATIONS SUPPORT | LS | | | ( 270) |
| SUBTOTAL | | | | 14,695 |
| CONTINGENCY (5%) | | | | 735 |
| TOTAL CONTRACT COST | | | | 15,430 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 926 |
| TOTAL REQUEST | | | | 16,356 |
| TOTAL REQUEST (ROUNDED) | | | | 16,400 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (10,700) |

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, steel frame, and roof system. Includes environmental controls, fire protection, TEMPEST security, SCIF areas, Top Secret storage vault, prewiring for communications, pre-wired work stations, utilities tie-in with existing building, and necessary support.
Air Conditioning: 800 Tons.

11. REQUIREMENT: 194,000 SF ADEQUATE: 90,000 SF SUBSTANDARD: 35,500 SF
PROJECT: Add to and alter a centralized integration support facility, phase 2 of 2. (New Mission)
REQUIREMENT: A centrally located facility is required to consolidate software engineering and logistical support to the following Space Command networks and systems using the extendible integration support environment: Integrated Threat Warning and Assessment, Space Defense Command and Control System, and Air Force Satellite Control Network. This facility is essential for maintaining the defense force readiness capability. It will provide logistical support to enable expeditious reaction to wartime scenarios. It will house hot mock-ups, simulators, special test equipment, automatic test equipment support systems and general support equipment, and the management and technical staffs necessary to provide systems support. This addition, the second phase of a two phase program, is required to complete consolidation of software engineering and logistical support functions.
CURRENT SITUATION: The development and acquisition of space and warning computer systems and related technology is expanding faster than the ability to provide support space. Organic depot support facilities are almost non-existent for space systems. As a result, the Air Force must provide contractor depot engineering and maintenance for almost all space

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| PETERSON AIR FORCE BASE, COLORADO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | | TDKA943005 |

and warning systems in the inventory. Under the current contractor support situation, 22 separate activities must be operated to meet the software support requirement. Roughly half the facilities are contractor owned and operated, and must repeatedly be sole-source contracted to the original contractor. Phase I of this effort was authorized and appropriated in the FY 92 Military Construction Program.

IMPACT IF NOT PROVIDED: Without completion of this two-phased effort, the capability to support wartime space requirements cannot be assured. Additionally, manpower and dollars will continue to be wasted due to inefficiencies and duplications-of-effort inherent in the current concept for sustained support of space and warning systems.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER INTEGRATION SUPPORT FACILITY, PHASE II | TDKA943005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 16 |
| (d) Date Design Complete | 93 DEC 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | PETERSON |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 1010 |
| (b) All Other Design Costs | 327 |
| (c) Total | 1337 |
| (d) Contract | 998 |
| (e) In-house | 339 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| LOCAL AREA NETWORK EQUIP | 3080 | 1995 | 600 |
| UPS EQUIPMENT | 3080 | 1995 | 760 |
| SECURITY EQUIPMENT | 3080 | 1995 | 500 |
| EXPANDABLE INTERGRATED SUPPORT EQUIPMENT (EISE) | 3080 | 1995 | 10700 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PETERSON AIR FORCE BASE, COLORADO | PRECISION MEASUREMENT EQUIPMENT LABORATORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.59.96 | 218-868 | TDKA923008 | 2,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PRECISION MEASUREMENT EQUIPMENT | | | | |
| LABORATORY | SF | 9,700 | 175 | 1,698 |
| SUPPORTING FACILITIES | | | | 265 |
| UTILITIES | LS | | | ( 95) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| PAVEMENTS | LS | | | ( 85) |
| SUBTOTAL | | | | 1,963 |
| CONTINGENCY (5%) | | | | 98 |
| TOTAL CONTRACT COST | | | | 2,061 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 124 |
| TOTAL REQUEST | | | | 2,185 |
| TOTAL REQUEST (ROUNDED) | | | | 2,200 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (500) |

10. Description of Proposed Construction: Reinforced concrete foundation with vibration-damping floor slab, steel frame with masonry walls, roof system, all utilities and necessary support facilities.
Air Conditioning: 35 Tons.

11. REQUIREMENT: 9,700 SF ADEQUATE: 0 SUBSTANDARD: 5,080 SF
PROJECT: Construct a new Precision Measurement Equipment Laboratory (PMEL). (New Mission)
REQUIREMENT: A facility with environmental controls to assure rigid control of temperature, moisture and dust. This facility is required for field level maintenance, calibration and certification of precision measurement equipment for active duty and Air Force Reserve units stationed within the Peterson AFB, Falcon AFB, Cheyenne Mountain AFB, and numerous sites including the AFSPACECOM unit at Buckley ANGB.
CURRENT SITUATION: The existing facility has had two additions, each with a separate HVAC system, and the facility is now unable to maintain the proper environment within acceptable limits. Configuration of the rooms does not allow efficient layout of existing equipment; and it will not accommodate the equipment which will be added in the next five years to support the AFMC new mission for systems development (Pacer Frontier) and new DoD missions at Falcon AFB. The space needed to house over $500,000 of newly required equipment, on order to support new missions at Falcon AFB and Peterson AFB, does not exist in the present facility. In addition some existing equipment, such as the Radiac Unit (radioactive timing calibration), cannot be properly used due to inadequate space. The receiving and storage area is undersized; equipment and cases are stored in work areas. The inventory of items supported is projected to increase from 3,400 to 4,900 items. New mission requirements call for a fiber

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| PETERSON AIR FORCE BASE, COLORADO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| PRECISION MEASUREMENT EQUIPMENT LABORATORY | | TDKA923008 |

optics lab which will require an additional 1,000 SF. The equipment utilized is vibration sensitive, and it is not economically feasible to renovate the existing structure to the extent necessary to achieve the proper, vibration-free environment.

IMPACT IF NOT PROVIDED: With the increase in new items to be tested and the addition of new testing equipment, the PMEL's production quality and ability to perform accurate measurements will be impaired. Backlogs and work stoppages can result, ultimately causing an adverse effect on missions supported and loss of certification as a PMEL lab. Failure to calibrate equipment without proper lab standards will result in errors that will affect the ability to operate the missions without error.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facilities Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PRECISION MEASUREMENT EQUIPMENT LABORATORY | TDKA923008 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 14 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 23 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 130 |
| (b) All Other Design Costs | 70 |
| (c) Total | 200 |
| (d) Contract | 165 |
| (e) In-house | 35 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| PRECISION MEASURING INSTRUMENTATION | 3080 | FY94 | 500 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PETERSON AIR FORCE BASE, COLORADO | TEST AND EVALUATION SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 311-174 | TDKA913001 | 2,430 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| TEST AND EVALUATION SUPPORT FACILITY | SF | 12,400 | 140 | 1,736 |
| SUPPORTING FACILITIES | | | | 445 |
| COMMUNICATIONS SUPPORT | LS | | | ( 40) |
| UTILITIES | LS | | | ( 265) |
| PAVEMENTS | LS | | | ( 55) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| SUBTOTAL | | | | 2,181 |
| CONTINGENCY (5%) | | | | 109 |
| TOTAL CONTRACT COST | | | | 2,290 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 137 |
| TOTAL REQUEST | | | | 2,427 |
| TOTAL REQUEST (ROUNDED) | | | | 2,430 |

10. Description of Proposed Construction: Energy-efficient, single-story, flat-roofed, masonry building with concrete foundation and floor. Metal stud interior walls, interior finishes, utilities, and wiring to support existing workstations.
Air Conditioning: 35 Tons.

11. REQUIREMENT: 12,400 SF ADEQUATE: 0 SUBSTANDARD: 10,000 SF
PROJECT: Construct a test and evaluation support facility. (Current Mission)
REQUIREMENT: This project is required to support centralized management and supervision of all Joint Services operational test and evaluation (OT&E) programs in the Colorado Springs area. The facility will house 80 permanent party personnel (and the associated computer equipment) responsible for the new expanded mission of planning, conducting, and reporting all initial, qualification, and additional follow-on and joint operational test and evaluation for Air Force Space Command. The expanded testing will continue for the foreseeable future and serve other organizations, including the Consolidated Space Operations Center, NAVSTAR/Ground Positioning System Space and Control Segment, MILSTAR, Cheyenne Mountain Upgrade, and SDI support. In addition to the HQ AFOTEC conducted tests, Detachment 4 has assumed responsibility for test programs formerly conducted by the MAJCOMs. This rapid increase in the number of programs needing OT&E requires an efficient, adequate facility.
CURRENT SITUATION: The detachment currently occupies a substandard, leased, temporary facility under a SAF/MII waiver. This facility is energy inefficient, poorly configured, undersized, and fails to meet the needs of the OT&E function. Some of the personnel occupy leased office space as additional suitable space is unavailable on Peterson. The

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TEST AND EVALUATION SUPPORT FACILITY | TDKA913001 |

current lease will expire Jan 1993, and new lease costs are expected to increase.

IMPACT IF NOT PROVIDED: HQ AFOTEC will expend valuable O&M dollars to continue to lease and maintain the temporary facility and the office space in a time of decreasing funding. Travel time between the two locations will reduce productivity and jeopardize test schedules that are based upon 100% work effort.

ADDITIONAL: The project meets the criteria specified in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TEST AND EVALUATION SUPPORT FACILITY | TDKA913001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 JUN 18 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 145 |
| (b) All Other Design Costs | 105 |
| (c) Total | 250 |
| (d) Contract | 200 |
| (e) In-house | 50 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| UNITED STATES AIR FORCE ACADEMY, COLORADO | UNITED STATES AIR FORCE ACADEMY | 1.05 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 1110 | 1230 | 1632 | | 4482 | 190 | | | | 8,644 |
| b. End FY 1998 | 1078 | 1164 | 1644 | | 4182 | 190 | | | | 8,258 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 54,296) | |
| b. Inventory Total As Of: (30 SEP 92) | 326,420 |
| c. Authorization Not Yet In Inventory: | 22,260 |
| d. Authorization Requested In This Program: | 11,680 |
| e. Authorization Included In Following Program: (FY 1995) | 10,900 |
| f. Planned In Next Four Program Years: | 84,700 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 455,960 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-111 | ENHANCED FLIGHT SCREENER HANGARS | 27,500 SF | 3,800 | SEP 92 | AUG 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 11 EA | 780 | APR 92 | DEC 93 |
| 831-168 | ADD TO AND ALTER WASTEWATER TREATMENT PLANT | LS | 7,100 | SEP 92 | DEC 93 |
| | | TOTAL: | 11,680 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 211-000 | AIRCRAFT MAINTENANCE | 11,200 SF | 2,250 |
| 740-884 | CHILD DEVELOPMENT CENTER | 25,100 SF | 4,000 |
| 821-117 | REPLACE HEATING FACILITIES | 22,350 MB | 4,650 |
| | | TOTAL: | 10,900 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 171-475 | CONSTRUCT NEW CLASSROOM/ ADMIN BUILDING FOR PREP SCHOOL | 18,845 SF | 2,050 |
| 171-853 | RENOVATE USAF ACADEMY ACADEMIC TRAINING FACILITY, PHASE 3 | 156,765 SF | 14,400 |
| 211-111 | REPLACE SAILPLANE HANGAR | 15,200 SF | 2,050 |
| 610-284 | RENOVATE MAJOR COMMAND HEADQUARTERS | 60,000 SF | 4,300 |
| 841-425 | POTABLE WATER TANK | 2,000 KG | 1,900 |

10. Mission or Major Functions: Responsible for providing education and training for cadets to become Air Force officers and includes an Air Training Command flying training squadron with T-41 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| UNITED STATES AIR FORCE ACADEMY, COLORADO | ENHANCED FLIGHT SCREENER HANGARS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.48 | 211-111 | XQPZ930029 | 3,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ENHANCED FLIGHT SCREENER HANGARS | SF | 28,400 | 105 | 2,982 |
| SUPPORTING FACILITIES | | | | 450 |
| UTILITIES | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 250) |
| UNDERGROUND WASTE OIL TANK | LS | | | ( 50) |
| SUBTOTAL | | | | 3,432 |
| CONTINGENCY (5%) | | | | 172 |
| TOTAL CONTRACT COST | | | | 3,604 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 216 |
| TOTAL REQUEST | | | | 3,820 |
| TOTAL REQUEST (ROUNDED) | | | | 3,800 |

10. Description of Proposed Construction: Reinforced concrete footings, foundation and floor slab, pre-cast concrete T-walls, insulated walls and roof, fire detection system, utilities, underground waste oil tank, asphalt paving and other necessary support.

11. REQUIREMENT: 69,350 SF ADEQUATE: 40,950 SF SUBSTANDARD: 0

PROJECT: Construct hangars and required ramp for Enhanced Flight Screener aircraft. (New Mission)

REQUIREMENT: Provide hangars to shelter Enhanced Flight Screener (EFS) aircraft (commercial specifications) from blowing sand, wind and hail damage as well as to perform necessary maintenance. The EFS program will implement new and additional types of sorties not possible with existing aircraft. Special features inherent with the EFS will require increased maintenance and, therefore, additional maintenance bays. The EFS aircraft will be used in a mandatory screening program for prospective pilots. Ramp space will be required for aircraft manuevering and access to existing runways.

CURRENT SITUATION: In 1993, the Academy will receive 56 new EFS aircraft to replace 50 T-41 aircraft through a commercial, off-the-shelf procurement by ATC. Current hangar space will shelter only 34 EFS aircraft due to dimensional and wing configuration differences compared with the T-41. The remaining aircraft will be stored outside, vulnerable to 65+ knot winds, sand, temperature extremes, and hail damage. Although similar commercial aircraft can withstand up to 3/4 inch hail, the Academy experiences hail greater than 3/4 inch approximately four times per year. Winds at the Academy exceed 50 knots on the average of 22 times per year. Within the Colorado Springs and Denver areas, all owners of similar aircraft hangar planes from this extreme environment or carry insurance to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENHANCED FLIGHT SCREENER HANGARS | XQPZ930029 |

fix or replace the aircraft.

IMPACT IF NOT PROVIDED: Without hangars, one hailstorm with greater than 3/4 inch hailstones will ground the 22 unsheltered EFS aircraft. If the aircraft are damaged and unavailable, proper screening and training cannot occur, which seriously impacts the mission. The EFS aircraft must be able to withstand up to six Gs; therefore, skin or structural damage from hail is a safety hazard and will require immediate repairs. If the damage is widespread, as in the case of a hailstorm, replacement of the wings and fuselage parts may be necessary.

ADDITIONAL: By making this purchase of off-the-shelf commercial aircraft, the Air Force will save between $30 and $50 million in development costs. Replacement value for the 22 EFS is $4.4 million. An economic analysis has been prepared comparing alternatives of new construction, addition to existing hangars, hangaring at nearby Peterson AFB and status quo operation. The existing airfield configuration restricts any additions to the existing hangars, and Peterson AFB does not have additional hangar space available. Based on the new present value and benefits of the alternatives, status quo appears to be more cost effective. However, status quo will not support the current mission to screen cadets for pilot training. Also actual historical maintenance/repair costs on the EFS do not exist since it is a new aircraft and T-41 data are not applicable. Therefore, the analysis cannot accurately compare the two alternatives.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENHANCED FLIGHT SCREENER HANGARS | XQPZ930029 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 228 |
| (b) All Other Design Costs | 124 |
| (c) Total | 352 |
| (d) Contract | 180 |
| (e) In-house | 172 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| UNITED STATES AIR FORCE ACADEMY, COLORADO | ADD TO AND ALTER WASTEWATER TREATMENT PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.56A | 831-168 | XQPZ940065 | 7,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER WASTEWATER TREATMENT PLANT | LS | | | 4,404 |
| ADDITION | LS | | | (1,530) |
| ALTERATION | LS | | | (2,874) |
| SUPPORTING FACILITIES | | | | 1,975 |
| DEMOLITION | LS | | | ( 260) |
| PIPING | LS | | | ( 585) |
| EXTERIOR LIGHTING | LS | | | ( 80) |
| O&M MANUALS | LS | | | ( 125) |
| SITE WORK | LS | | | ( 925) |
| SUBTOTAL | | | | 6,379 |
| CONTINGENCY (5%) | | | | 319 |
| TOTAL CONTRACT COST | | | | 6,698 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 402 |
| TOTAL REQUEST | | | | 7,100 |
| TOTAL REQUEST (ROUNDED) | | | | 7,100 |

10. Description of Proposed Construction: New construction includes headworks, primary clarifier, sludge thickener, primary effluent diversion structure, and operations building. Alterations include secondary treatment improvements, chlorine contact basin expansion, electrical system upgrade, and replacement of digester boiler/heat exchanger and equipment. Also includes start-up training and O&M manuals.

11. REQUIREMENT: As required.
PROJECT: Add to and alter the existing wastewater treatment plant. (Current Mission)
REQUIREMENT: This is a Level I enviroomental compliance project to correct plant deficiencies that prevent the plant from meeting the 30 ppm biochemical oxygen demand (BOD) discharge limit per NPDES permit. Also, this project will ensure that the plant meets the planned changes to the NPDES permit when renewed Mar 1993 and complies with additional State of Colorado requirements for irrigation using the plant's effluent. The effluent from the wastewater treatment plant is required to meet State of Colorado and Federal wastewater treatment and pollution standards.
CURRENT SITUATION: The existing wastewater plant was designed in 1957 to process a 4.5M gallons/day peak flow of raw wastewater. However, the regular flow surges caused by the schedule of the cadets and the high associated wastewater strength make it difficult for the plant to adequately remove organic material from the wastewater. The waste leaving the cadet dining facility is extremely high in organic strength and is discharged over short periods of time. The average BOD entering the treatment plant during a maximum month loading situation when the cadets are present is nearly 600 ppm. The requirement of effluent BOD of 30 ppm has not been reliably met for many years. The condition of the plant's

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| UNITED STATES AIR FORCE ACADEMY, COLORADO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER WASTEWATER TREATMENT PLANT | | XQPZ940065 |

treatment units is poor. The plant's oxidation unit has not been in use for a number of years due to design deficiencies. The wastewater loading on the plant is higher than the plant's current treatment capacity. Upgrading the 34-year-old plant will allow it to meet current and projected permit limits. The Colorado Department of Health (CDH) will impose more stringent reuse standards, and the treatment plant must be upgraded to meet these requirements. Also, the Academy may need to divert a well-defined runoff stream that flows into the first of four non-potable storage reservoirs (sources of irrigation) around that reservoir in order to prevent the EPA from considering it a "Water of the US". The fourth reservoir in the Academy's system will be considered a Water of the US, and the EPA will require Whole Effluent Toxicity Testing (aquatic life) on treated effluent that is discharged to it. In the future, the plant might not be allowed to discharge into nearby Monument Creek in order not to exceed the standard for inorganic nitrogen in the creek.

IMPACT IF NOT PROVIDED: The treatment plant currently does not comply with its existing NPDES discharge limits most of the time. As state and Federal wastewater pollution standards become more stringent (adoption of more stringent standards for irrigation and Waters of the US classification), the treatment plant will be in violation of even more discharge permit provisions. There also is a high potential for mechanical/electrical failure due to equipment age, which would result in further violation of permit limits or in a potentially illegal discharge into Monument Creek. A discharge into Monument Creek could result in pollution, incurring environmental violations/fines, and other actions.

ADDITIONAL: There are no criteria for this project in Part II of Military Handbook 1190, " Facility Planning and Design Guide." However, this project does meet the criteria specified in the Air Force Manual 86-2, "Standard Facility Requirements." An economic analysis has been prepared comparing alternatives of new construction, upgrading, sending waste to the City of Colorado Springs, and status quo operation. Based on the new present value and benefits of the respective alternatives, upgrading is more cost effective over the life of the project. From 1965 to 1971, several upgrades to the plant were completed. They included the addition of a primary and two final clarifiers, a primary digester, and an oxidation tank. The latest upgrade in 1987 added a flow equalization unit.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER WASTEWATER TREATMENT PLANT | XQPZ940065 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 01 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 438 |
| (b) All Other Design Costs | 219 |
| (c) Total | 657 |
| (d) Contract | 438 |
| (e) In-house | 219 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| DOVER AIR FORCE BASE, DELAWARE | AIR MOBILITY COMMAND | 1.02 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 380 | 3816 | 1258 | 64 | 414 | 61 | 2 | 17 | 1 | 6,013 |
| b. End FY 1998 | 375 | 3601 | 1423 | 64 | 414 | 61 | 2 | 17 | 1 | 5,958 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,905) | |
| b. Inventory Total As Of: (30 SEP 92) | 211,185 |
| c. Authorization Not Yet In Inventory: | 42,310 |
| d. Authorization Requested In This Program: | 6,560 |
| e. Authorization Included In Following Program: (FY 1995) | 1,750 |
| f. Planned In Next Four Program Years: | 27,750 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 289,555 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 211-159 | INSTALL EMISSION CONTROL DEVICES | | LS | 860 | OCT 92 | JUL 93 |
| 721-312 | DORMITORY (DBOF) | 125 | PN | 3,200 | AUG 92 | AUG 93 |
| 722-351 | ADD TO AND ALTER DINING FACILITY (DBOF) | 17,850 | SF | 2,500 | JAN 93 | NOV 93 |
| | | TOTAL: | | 6,560 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 141-784 | ADD TO AND ALTER AIR PASSENGER TERMINAL | | LS | 1,750 |
| | | TOTAL: | | 1,750 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 130-142 | PIRE/CRASH RESCUE STATION | 14,500 | SF | 2,300 |
| 610-121 | VEHICLE OPERATIONS ADMIN | 4,100 | SF | 800 |
| 721-312 | UNACCOMPANIED ENLISTED HSG | 350 | PN | 4,400 |
| 721-312 | UNACCOMPANIED ENLISTED HSG | 350 | PN | 9,000 |
| 740-674 | ADD TO AND ALTER PHYSICAL FITNESS CENTER | 19,600 | SF | 2,900 |

10. Mission or Major Functions: An airlift wing which includes three C-5 squadrons; an Air Force Reserve C-5 associate airlift wing; and the largest aerial port on the east coast. Also, a joint military/civil use airfield.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOVER AIR FORCE BASE, DELAWARE | DORMITORY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | FJXT943005 | 3,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DORMITORY (DBOF) | SF | 25,000 | 90 | 2,250 |
| SUPPORTING FACILITIES | | | | 630 |
| UTILITIES | LS | | | ( 165) |
| PAVEMENTS | LS | | | ( 165) |
| SITE IMPROVEMENTS | LS | | | ( 115) |
| DEMOLITION | SF | 30,900 | 6 | ( 185) |
| SUBTOTAL | | | | 2,880 |
| CONTINGENCY (5%) | | | | 144 |
| TOTAL CONTRACT COST | | | | 3,024 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 181 |
| TOTAL REQUEST | | | | 3,205 |
| TOTAL REQUEST (ROUNDED) | | | | 3,200 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roof. Includes room-bath-room modules, laundries, storage and lounge areas and all supporting facilities. Air Conditioning: 100 Tons. Grade Mix: 175 E1-E4.

11. REQUIREMENT: 1,787 PN ADEQUATE: 901 PN SUBSTANDARD: 1,624 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to meet the billeting requirements of unaccompanied enlisted personnel at this base. Substandard facilities to be replaced are semi-permanent, modular facilities which do not provide semi-private baths, adequate control of heating and air conditioning, sufficient noise attenuation or necessary amenities to adequately house enlisted personnel. This project is the fourth phase of a six phase program to provide adequate dormitories at this base. Current occupancy rate of dorms at Dover is 98 percent. Three substandard facilities which house 106 personnel will be disposed of upon completion of this project.
IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DORMITORY (DBOF) | FJXT943005 |

life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation, and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DORMITORY (DBOF) | FJXT943005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 12 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 15 |
| (d) Date Design Complete | 93 AUG 23 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 192 |
| (b) All Other Design Costs | 208 |
| (c) Total | 400 |
| (d) Contract | 78 |
| (e) In-house | 322 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOVER AIR FORCE BASE, DELAWARE | ADD TO AND ALTER DINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 722-351 | FJXT933000 | 2,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | SF | 15,950 | | 1,738 |
| ADDITION | SF | 1,150 | 160 | ( 184) |
| ALTERATION | SF | 14,800 | 105 | (1,554) |
| SUPPORTING FACILITIES | | | | 420 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| PAVEMENTS | LS | | | ( 110) |
| ASBESTOS REMOVAL | LS | | | ( 35) |
| SUBTOTAL | | | | 2,158 |
| CONTINGENCY (10%) | | | | 216 |
| TOTAL CONTRACT COST | | | | 2,374 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 142 |
| TOTAL REQUEST | | | | 2,516 |
| TOTAL REQUEST (ROUNDED) | | | | 2,500 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab and roof panels. All electrical, mechanical, and structural work necessary to reconfigure existing kitchen, serving area and dining area.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 17,800 SF ADEQUATE: 1,850 SF SUBSTANDARD: 14,800 SF
PROJECT: Add to and alter dining facility. (Current Mission)
REQUIREMENT: Adequate space is required for food preparation, serving line, dishwashing equipment, dining area, and storage of perishable and non-perishable food.
CURRENT SITUATION: The dining hall activities are presently being conducted in a facility that is too small and not properly configured to support assigned and transient personnel. Inefficiencies include 17-year-old outdated serving line equipment, lack of adequate sanitation, and inadequatly sized or configured dining and kitchen area which does not permit optimal use of existing space. The existing dining facility was constructed in 1975. Subsequent to this construction, sanitation standards have changed in kitchen washing and cleaning operations which cannot be met due to the design and equipment layout. Insufficient storage space for pots and pans has caused medical write-ups for sanitation discrepancies. Additional space is required for patron seating. Lack of adequate seating space and food serving line causes unnecessary delays for personnel who are on meal breaks from their jobs.
IMPACT IF NOT PROVIDED: Dining hall operations will continue to be performed in a substandard and overcrowded facility. Morale of our personnel will continue to be adversely impacted if they are forced to take meals in such an inadequate and unattractive facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | FJXT933000 |

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, addition/alteration and new construction). This analysis indicates the addition/alteration alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | FJXT933000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 17 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 SEP 01 |
| (d) | Date Design Complete | 93 NOV 22 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 150 |
| (b) | All Other Design Costs | 100 |
| (c) | Total | 250 |
| (d) | Contract | 170 |
| (e) | In-house | 80 |
| (4) | Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA | AIR FORCE DISTRICT OF WASHINGTON | 1.05 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 566 | 1517 | 978 | 392 | 390 | 80 | 210 | 1222 | | 5,355 |
| b. End FY 1998 | 559 | 1432 | 948 | 392 | 390 | 80 | 210 | 1222 | | 5,233 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 607) | |
| b. Inventory Total As Of: (30 SEP 92) | 241,941 |
| c. Authorization Not Yet In Inventory: | 9,400 |
| d. Authorization Requested In This Program: | 2,000 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 36,000 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 289,341 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 740-884 | ADD TO CHILD DEVELOPMENT CENTER | 16,200 SF | 2,000 | SEP 92 | JUL 93 |
| | | TOTAL: | 2,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 721-312 | ALTER DORMITORIES | 975 PN | 4,000 |
| 721-312 | UNACCOMPANIED ENLISTED HSG | 200 PN | 6,000 |
| 724-415 | REPLACE VISITORS QUARTERS | 100 PN | 3,500 |
| 730-441 | CONSOLIDATED SUPPORT CENTER | 80,000 SF | 15,000 |
| 740-674 | ADD TO AND ALTER PHYSICAL FITNESS CENTER | 17,000 SF | 1,800 |

10. Mission or Major Functions: Supports Air Force personnel in the National Capitol Region. Headquarters USAF functions include Chief of Chaplains, Surgeon General, and Historian; Headquarters Air Force Office of Special Investigation; Air Force Office of Scientific Research; Air Force Legal Services Agency; Air Force Medical Support Agency; USAF Band; and USAF Honor Guard. Major tenants include the Defense Intelligence Agency.

11. Outstanding pollution and safety (OSH) deficiencies:

| | | |
|---|---|---|
| a. | Air pollution: | 0 |
| b. | Water pollution: | 0 |
| c. | Occupational safety and health: | 0 |
| d. | Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA | ADD TO CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 740-884 | BXUR870202 | 2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO CHILD DEVELOPMENT CENTER | SF | 16,200 | 105 | 1,701 |
| SUPPORTING FACILITIES | | | | 115 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 25) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| SUBTOTAL | | | | 1,816 |
| CONTINGENCY (5%) | | | | 91 |
| TOTAL CONTRACT COST | | | | 1,907 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 114 |
| TOTAL REQUEST | | | | 2,021 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, electrical, mechanical and ventilation system, and fire protection system. Area includes playrooms with bathrooms sized for both adults and children.

11. REQUIREMENT: 30,000 SF ADEQUATE: 13,755 SF SUBSTANDARD: 0
PROJECT: Add to child development center. (Current Mission)
REQUIREMENT: To provide adequate child care and preschool facilities for dependent children.
CURRENT SITUATION: The capacity of the existing Child Development Center is limited to 208 children. The center currently has a waiting list of 350 children. Because of the large number of children, the center normally is filled to capacity early in the morning, causing parents in need of child care after this time to find other services in the civilian community. Because of space non-availability, implementation of the six-week through six-month-old infant program is being delayed indefinitely. Other programs, such as the summer youth program for school-age children and kindergarten programs, are being conducted in the Youth Center which issacrificing youth activity programs.
IMPACT IF NOT PROVIDED: Military personnel and their dependents must continue using less than adequate facilities and the waiting list will continue to grow. The six-week to six-month-old infant program will be delayed indefinitely. Youth center activities will continue to be hamperedbecause of space being utilized by the Child Development Center.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of status quo, expansion and new construction. Expansion will provide the additional space needed at the Child Development Center at the lower life cycle cost. Therefore, expansion was the recommended

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| ADD TO CHILD DEVELOPMENT CENTER | BXUR870202 |

alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO CHILD DEVELOPMENT CENTER | BXUR870202 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 02 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 93 JAN 01 |
| (d) Date Design Complete | | 93 NOV 08 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 120 |
| (b) All Other Design Costs | | 60 |
| (c) Total | | 180 |
| (d) Contract | | 120 |
| (e) In-house | | 60 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | AIR FORCE SPACE COMMAND | 0.91 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 115 | 171 | 185 | | | | 18 | 138 | | 627 |
| b. End FY 1998 | 121 | 173 | 177 | | | | 18 | 138 | | 627 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 20,156) | |
| b. Inventory Total As Of: (30 SEP 92) | 412,611 |
| c. Authorization Not Yet In Inventory: | 70,153 |
| d. Authorization Requested In This Program: | 19,200 |
| e. Authorization Included In Following Program: (FY 1995) | 17,150 |
| f. Planned In Next Four Program Years: | 23,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 543,014 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | | LS | 400 | TURN KEY | |
| 811-145 | SLFI - BACKUP POWER | | LS | 2,500 | SEP 92 | AUG 93 |
| 811-147 | SLFI - BACKUP POWER | | LS | 800 | AUG 92 | AUG 93 |
| 831-165 | SEWAGE TREATMENT PLANT | 800 | KG | 11,900 | OCT 91 | SEP 93 |
| 842-245 | SLFI - UPGRADE WATER SUPPLY MAINS | | LS | 1,200 | | |
| 880-233 | SLFI - UPGRADE FIRE SYSTEM | | LS | 2,400 | SEP 92 | AUG 93 |
| | | TOTAL: | | 19,200 | | |

| 9a. Future Projects: Included in the Following Program (FY 1995) | | | | | |
|---|---|---|---|---|---|
| 141-626 | WEATHER STATION | 33,300 | SF | 5,600 | |
| 219-944 | CORROSION CONTROL FACIITY | 6,000 | SF | 1,850 | |
| 610-811 | DELTA CENTRALIZED FACILITY | 25,000 | SF | 4,500 | |
| 812-224 | UPGRADE POWER, SLC 36-A | | LS | 1,850 | |
| 890-272 | SLFI - UPGRADE ENERGY MANAGEMENT AND CONTROL SYSTEM | | LS | 3,350 | |
| | | TOTAL: | | 17,150 | |

| 9b. Future Projects: Typical Planned Next Four Years: | | | | | |
|---|---|---|---|---|---|
| 312-477 | GLOBAL POSITIONING SYSTEM RESEARCH FACILITY | 20,000 | SF | 3,400 | |
| 371-000 | LAUNCH TERMINAL SUPPORT FACILITY | 100,000 | SF | 10,000 | |
| 442-758 | HIGH VALUE ITEM STORAGE | 25,000 | SF | 6,000 | |
| 831-165 | SEWAGE TREATMENT & DISPOSAL | | LS | 4,000 | |
| 890-161 | UTILITY SUPPORT BUILDING | | LS | 500 | |

10. Mission or Major Functions: A space launch squadron and space systems squadron which support operational and test launches of missiles, satellites, and space vehicles in equatorial and synchronous orbits. Also, supports interplanetary space activities, and major tenants such as NASA, and Army, Navy and Coast Guard units.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | AIR FORCE SPACE COMMAND | 0.91 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 4,850 |
| b. Water pollution: | 4,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | SLFI - BACKUP POWER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.82 | 811-145 | DBEH953008 | 2,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI-BACKUP POWER | LS | | | 2,055 |
| EMERGENCY GENERATORS (4-1000 KW EACH) | EA | 4 | 220,000 | ( 880) |
| WEATHERPROOF FACILITY | SF | 5,000 | 85 | ( 425) |
| HIGH VOLTAGE SWITCHGEAR | LS | | | ( 750) |
| SUPPORTING FACILITIES | | | | 180 |
| FUEL STORAGE TANK | LS | | | ( 80) |
| SITEWORK | LS | | | ( 50) |
| UTILITIES | LS | | | ( 50) |
| SUBTOTAL | | | | 2,235 |
| CONTINGENCY (5%) | | | | 112 |
| TOTAL CONTRACT COST | | | | 2,347 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 141 |
| TOTAL REQUEST | | | | 2,488 |
| TOTAL REQUEST (ROUNDED) | | | | 2,500 |

10. Description of Proposed Construction: A 5,000 SF facility to match the existing architecture in the Range Operations Control Center (ROCC) complex. Four 1000 KW Class C emergency power generators, appropriate 13.2 KV switch gear, automatic transfer switch, adequate ventilation, fire protection, and supporting utilities as required.

11. REQUIREMENT: As required.

PROJECT: Provide backup power to the Range Operations Control Center (ROCC). (Current Mission)

REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. A reliable source of backup power to the Range Operations Control Center (ROCC) is required during critical phases of launch operations in the event that commercial power is interrupted for time periods which exceed the capability of the uninterruptible power supply (UPS) system. The ROCC monitors and manages trajectories, air traffic, communications, pre-launch check-out, and command-destruct decision making.

CURRENT SITUATION: There is currently insufficient backup power for full operation of the Range Operations Control Center during commercial power outages. The current backup generator provides only 130 KW, while 4,430 KW is required to power all radar, communications and control equipment.

IMPACT IF NOT PROVIDED: In the event of a commercial power outage, critical testing and other pre-launch related operations must be aborted and rescheduled. Command destruct capability will be lost if power goes out during a launch. An out-of-control missile could impact on populated areas.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| SLFI - BACKUP POWER | | DBEH953008 |

alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - BACKUP POWER | DBEH953008 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 23 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 14 |
| (d) | Date Design Complete | 93 AUG 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 150 |
| (b) | All Other Design Costs | 75 |
| (c) | Total | 225 |
| (d) | Contract | 190 |
| (e) | In-house | 35 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | SEWAGE TREATMENT PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.58.56 | 831-165 | DBEH943005 | 11,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SEWAGE TREATMENT PLANT | KG | 800 | 6,290 | 5,032 |
| SUPPORTING FACILITIES | | | | 5,655 |
| UTILITIES | LS | | | ( 145) |
| SITE IMPROVEMENTS | LS | | | ( 120) |
| DEMOLITION | LS | | | ( 295) |
| WW COLLECTION SYSTEM | LS | | | ( 4,200) |
| EFFLUENT DISPOSAL | LS | | | ( 740) |
| START-UP, TRAINING, O&M MANUALS | LS | | | ( 155) |
| SUBTOTAL | | | | 10,687 |
| CONTINGENCY (5%) | | | | 534 |
| TOTAL CONTRACT COST | | | | 11,221 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 673 |
| TOTAL REQUEST | | | | 11,894 |
| TOTAL REQUEST (ROUNDED) | | | | 11,900 |

10. Description of Proposed Construction: A centralized wastewater treatment plant (WWTP) and collection system for all service areas of CAPE CANAVERAL AFS (CCAFS). In addition, provide new lift stations, equalization basins, sewer mains, piping, pumps, valves, and all equipment necessary for a complete system. Demolition of existing inadequate plants.

11. REQUIREMENT: 800 KG ADEQUATE: 0 SUBSTANDARD: 709 KG

PROJECT: Construct an 800,000 gallon per day wastewater treatment and collection system for processing sewage from the launch and service areas. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. An 800,000 gallon per day (GPD) sewage treatment plant is required to consolidate waste streams, reduce operation and maintenance costs, improve treatment efficiency, and improve the ability to monitor and comply with the state of Florida maximum contaminant levels for wastewater discharges. A modern, upgradable plant is needed to replace numerous small wastewater treatment and disposal systems which have outlived their 20 year design lives and are not adaptable to meet more stringent effluent standards. A collection system is needed to connect facilities to new central plants. Asurface disposal system is needed to comply with state regulations prohibiting discharge of treated effluent into the Indian River lagoon system.

CURRENT SITUATION: The existing wastewater management systems at CCAFS are comprised of 15 miles of gravity sewer and force main wastewater collection systems, 17 lift stations, 15 small WWTPs, 1 large WWTP, and 110 septic tanks. The average age of the WWTPs is 28 years and many of the manufacturers of the original systems are no longer in business to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| SEWAGE TREATMENT PLANT | | DBEH943005 |

supply replacement parts and equipment. The condition of these aged plants varies from fair condition to corroded, and they are in poor operating condition. Operational problems experienced with these plants include excessive corrosion, low percolation rates (resulting in noncompliance runoff), and uncontrolled cooling tower discharges. Transient populations (during launches) overload plant capacities to process wastewater, and discharge volumes exceed the ability of the percolation ponds to absorb the processed wastewater.
IMPACT IF NOT PROVIDED: Operation of the existing systems will continue to tax CCAFS maintenance resources. In the likely event that effluent standards are made more stringent, these systems cannot be effectively upgraded to comply. Argonne Labs found conditions which could lead to discharges that may result in a Notice of Violation (NOV). In turn, this could result in fines and legal actions. Even under current requirements, continued mechanical wear and corrosion of equipment will inevitably lead to system failure, necessitating expensive repairs or replacement of the numerous individual systems. Continued current operations will result in overflow conditions and untreated releases at some time in the future.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SEWAGE TREATMENT PLANT | DBEH943005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 01 |
| (d) Date Design Complete | 93 SEP 16 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 730 |
| (b) All Other Design Costs | 178 |
| (c) Total | 908 |
| (d) Contract | 820 |
| (e) In-house | 88 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | SLFI - UPGRADE WATER SUPPLY MAINS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.82 | 842-245 | DBEH933002 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI-UPGRADE WATER SUPPLY MAINS | LS | | | 852 |
| 12 INCH LINES | LF | 11,500 | 49 | ( 564) |
| 8 INCH LINES | LF | 7,000 | 39 | ( 273) |
| FIRE HYDRANTS | EA | 5 | 3,000 | ( 15) |
| SUPPORTING FACILITIES | | | | 170 |
| ROAD CROSSINGS | LS | | | ( 20) |
| CONNECTIONS | LS | | | ( 20) |
| VALVES, VALVE BOXES | LS | | | ( 80) |
| SITE WORK | LS | | | ( 50) |
| SUBTOTAL | | | | 1,022 |
| CONTINGENCY (10%) | | | | 102 |
| TOTAL CONTRACT COST | | | | 1,124 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 67 |
| TOTAL REQUEST | | | | 1,191 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Upgrade 4" and 6" water lines to 12" lines, replace deteriorated 8" line with same and install two fire hydrants. Install 8" lines and fire hydrants on aircraft parking apron. Install isolation and check valves, and pressure regulators as required. Restore property affected by construction.

11. REQUIREMENT: 18,500 LF ADEQUATE: 0 SUBSTANDARD: 13,500 LF
PROJECT: Replace undersized and deteriorated water mains and install fire hydrants at deficient locations. (Current Mission)
REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. The survey identified four areas with deficient water supply for fire protection: the Titan IV Integration, Transfer, and Launch (ITL) facility; the skidstrip aircraft ramp; the small payload processing facility; and the Mission Control radar facilities. Adequate fire protection is required to protect mission critical equipment and to comply with provisions of AFM 88-10 pertaining to aircraft ramps, which directs that hydrants are to be spaced no more than 300 feet apart, and all areas of the aircraft ramp are to be within 500 feet of a hydrant.
CURRENT SITUATION: The Titan IV ITL area is fed by a ten inch and supplemental six inch water line. In the event of interruption to the ten inch line, the six inch line alone cannot provide an adequate supply of water for fire protection. Areas of the aircraft ramp are in violation of AFM 88-10. In the event of a fire, inadequate fire protection causes aircraft and contents worth millions to be exposed to loss. The small DoD payload processing facility and Mission Control radar facilities are not assured adequate fire suppression from even the single primary water supply due to deteriorated, undersized lines. A fire at one of these facilities could damage or destroy payloads being prepared for launch. In

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE WATER SUPPLY MAINS | DBEH933002 |

addition to the economic loss, delays in placing payloads into orbit would also impact the mission.

IMPACT IF NOT PROVIDED: Fire protection capabilities will be restricted. In the event of a fire, increased risk to personnel and damage to or loss of real property will result.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE WATER SUPPLY MAINS | DBEH933002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 62 |
| (b) All Other Design Costs | 50 |
| (c) Total | 112 |
| (d) Contract | 87 |
| (e) In-house | 25 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | SLFI - UPGRADE FIRE SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.82 | 880-233 | DBEH943006 | 2,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SLFI - UPGRADE FIRE SYSTEM | LS | | | 1,900 |
| AUTOMATIC SPRINKLER SYSTEM | SF | 200,000 | 8 | (1,600) |
| AUTO FIRE DETECTION SYSTEM | SF | 150,000 | 2 | ( 300) |
| SUPPORTING FACILITIES | | | | 150 |
| DEMOLITION | LS | | | ( 150) |
| SUBTOTAL | | | | 2,050 |
| CONTINGENCY (10%) | | | | 205 |
| TOTAL CONTRACT COST | | | | 2,255 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 135 |
| TOTAL REQUEST | | | | 2,390 |
| TOTAL REQUEST (ROUNDED) | | | | 2,400 |

10. Description of Proposed Construction: Install a single integrated detection system with electronic control panels and communications links tied to the base alarm network. Install sprinkler fire protection systems. Includes demolition of portions of existing walls, floors, and ceilings to allow installation of water piping and sensor systems.

11. REQUIREMENT: As required.

PROJECT: Install fire detection and sprinkler systems in the Titan Launch Operations Control Center (LOCC) and the Vertical Integration Building (VIB). (Current Mission)

REQUIREMENT: This is a Space Launch Facilities Infrastructure (SLFI) requirement. Fully operational fire detection and suppression systems are required to protect computer and electronic control rooms, rocket assembly, and shuttle payload assembly processes. These facilities, critical to both the Space Transportation System (STS) and Titan programs, come under the classification of facilities required by AFR 88-15 to have automated sprinkler and/or fire detection systems.

CURRENT SITUATION: In some facilities no automatic sprinkler systems were installed, and in some facilities the existing systems have been disabled. Existing systems are piecemeal halon systems and should be replaced with non-ozone-depleting systems. Personnel are at risk in areas which do not have operational automatic sprinkler systems. Also, some facilities have no alarm systems, and most of those which do have them are not connected to the base alarm system. Damage to facilities and contents would be severe due to delayed response time, and even more damage would be incurred if the facilities are not occupied at the time of a fire.

IMPACT IF NOT PROVIDED: A fire in one of these facilities will significantly increase the risk of equipment or facility damage. A fire

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CAPE CANAVERAL AIR FORCE STATION, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| SLFI - UPGRADE FIRE SYSTEM | | DBEH943006 |

in the facility resulting in major loss or damage to the facility will cause operations to cease for both the STS and Titan programs.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - UPGRADE FIRE SYSTEM | DBEH943006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 86 |
| (b) All Other Design Costs | 72 |
| (c) Total | 158 |
| (d) Contract | 122 |
| (e) In-house | 36 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | AIR FORCE MATERIEL COMMAND | 0.83 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1516 | 6541 | 3854 | | | | | | | 11,911 |
| b. End FY 1998 | 1529 | 6641 | 4106 | | | | | | | 12,276 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 456,873) | |
| b. Inventory Total As Of: (30 SEP 92) | 468,282 |
| c. Authorization Not Yet In Inventory: | 24,110 |
| d. Authorization Requested In This Program: | 69,050 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 52,500 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 613,942 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | 18,000 LF | 4,550 | SEP 92 | SEP 93 |
| 125-554 | REPLACE POL PIPELINE | 25,000 LF | 3,300 | OCT 92 | OCT 93 |
| 211-183 | AIRCRAFT ENGINE TEST FACILITY | 2 EA | 1,600 | JUL 92 | SEP 93 |
| 214-425 | VEHICLE MAINTENANCE/WAREHOUSE FACILITIES | 35,300 SF | 2,600 | JUL 92 | JUN 93 |
| 310-926 | RENOVATE CLIMATIC TEST CHAMBER PHASE II | LS | 57,000 | JUL 91 | JUN 93 |
| | | TOTAL: | 69,050 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 141-753 | COMBINED OPERATIONS/ MAINT FACILITIES | 23,100 SF | 5,600 |
| 141-782 | AIR FREIGHT/PASSENGER TERMINAL | 11,900 SF | 1,600 |
| 315-237 | ADD/ALTER AIRBORNE TEST FAC | 68,900 SF | 8,700 |
| 851-147 | REROUTE EGLIN BOULEVARD | LS | 3,000 |
| 890-000 | UPGRADE STORM WATER CONTROL MEASURES | LS | 1,200 |

10. Mission or Major Functions: Air Force Development Test Center (primary aircraft include AT-38, F-15, F-16, F-111, RF-4, T-38, NC-130, and UH-1) and a test wing; Air Combat Command fighter wing with three F-15 squadrons and USAF Air Warfare Center (F-15 and F-16 aircraft); an Air Force Special Operations Command special operations squadron (HC-130 aircraft); and an Air Mobility Command airlift detachment (C-21 aircraft). Major tenants include US Navy's Explosive Ordnance Disposal School and a Federal Bureau of Prisons medium security facility.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 6,000 |
| b. Water pollution: | 1,200 |
| c. Occupational safety and health: | 1,300 |
| d. Other Environmental: | 3,400 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | UPGRADE HYDRANT FUELING SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.06 | 121-122 | FTFA913013 | 4,550 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE HYDRANT FUELING SYSTEM | LS | | | 2,772 |
| SUPPORTING FACILITIES | | | | 1,315 |
| UTILITIES | LS | | | ( 445) |
| SITE IMPROVEMENT | LS | | | ( 150) |
| PAVEMENTS | LS | | | ( 180) |
| FUEL STORAGE TANK | BL | 10,000 | 54 | ( 540) |
| SUBTOTAL | | | | 4,087 |
| CONTINGENCY (5%) | | | | 204 |
| TOTAL CONTRACT COST | | | | 4,291 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 257 |
| TOTAL REQUEST | | | | 4,548 |
| TOTAL REQUEST (ROUNDED) | | | | 4,550 |

10. Description of Proposed Construction: Install 18,200 LF of underground pipelines, with a 10,000 BBL fuel storage tank, a hydrant fueling system, fill stands and pumps, including utilities and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade a hydrant fueling system. (Current Mission)
REQUIREMENT: Improve operational/wartime aircraft refueling capability. The ability to refill refueling vehicles on the flightline is required for refueling fighter aircraft. A hydrant refueling system is required to refuel large frame aircraft, i.e. KC-10, KC-135, C-5, C-141, on the parking apron. These aircraft pass through Eglin Air Force Base daily in support of numerous and various types of test projects performed at this base. This project is required to prevent refueling delays on both essential test mission aircraft and other transient aircraft.
CURRENT SITUATION: Lack of apron refueling facilities force a manpower intensive operation that significantly reduces the effectiveness of the base's fuel delivery operations. In 1990, the base averaged 230 large frame aircraft servicings monthly, with a high of 570 servicings in March 1990. This constitutes an average of 10 percent of the truck workload with a high of 18 percent in March 1990. All large-frame aircraft are refueled using trucks, which takes about three hours per aircraft including time for travel between the flightline and the main base bulk fuel storage area. This method of operation requires an average of 30 one and one-half mile trips per day through the most congested area of the base. These trips result in approximately 23 hours of lost productivity daily and leads to extensive delays in fueling of both assigned and transient aircraft. Open road operation contributes to excessive vehicle

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| UPGRADE HYDRANT FUELING SYSTEM | FTFA913013 |

downtime due to mechanical breakdowns and increases the potential for accidents.

IMPACT IF NOT PROVIDED: Slow, manpower intensive operations will continue, with resultant wasted manpower and unacceptable delays to wing missions and base support of contingency operations.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, upgrade of the existing system was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE HYDRANT FUELING SYSTEM | FTFA913013 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 20 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 SEP 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 198 |
| (b) All Other Design Costs | 314 |
| (c) Total | 512 |
| (d) Contract | |
| (e) In-house | 512 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | REPLACE POL PIPELINE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 125-554 | FTFA953019 | 3,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT POL PIPELINE | LF | 25,000 | 87 | 2,175 |
| SUPPORTING FACILITIES | | | | 805 |
| UTILITIES | LS | | | ( 95) |
| SITE IMPROVEMENTS | LS | | | ( 60) |
| REMOVE EXISTING PIPELINE | LF | 25,000 | 6 | ( 150) |
| CATHODIC PROTECTION SYSTEM | LF | 25,000 | 12 | ( 300) |
| LEAK DETECTION SYSTEM | LF | 25,000 | 8 | ( 200) |
| SUBTOTAL | | | | 2,980 |
| CONTINGENCY (5%) | | | | 149 |
| TOTAL CONTRACT COST | | | | 3,129 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 188 |
| TOTAL REQUEST | | | | 3,317 |
| TOTAL REQUEST (ROUNDED) | | | | 3,300 |

10. Description of Proposed Construction: Install 25,000 feet of 8-inch POL pipeline, with cathodic protection, leak detection and dewatering systems, and necessary support. Remove existing pipeline.

11. REQUIREMENT: As required.
PROJECT: Replace a POL pipeline. (Current Mission)
REQUIREMENT: This is a Level II environmental compliance project. An adequate POL pipeline is required to replace the existing deteriorated line that supplies JP-4 fuel from the main base area to a remote location used by the 33rd Fighter Wing. The JP-4 fuel is required for daily refueling of F-15 aircraft assigned to the 33rd Fighter Wing. Florida State Regulation 17.761.510 requires replacement of underground POL systems that were installed prior to 1970, which includes this pipeline.
CURRENT SITUATION: The existing aircraft fuel line was installed in 1957 and was required by Florida law to have been replaced by 1989. It is an eight-inch steel line wrapped in asphalt, but has no operating corrosion control or leak detection ssystem. The 33rd Fighter Wing has daily flights from this field and relies on the pipeline to replenish its operating storage tanks. A major break in the pipeline in 1990 resulted in an expenditure of $64,000 for initial cleanup, and will require additional cleanup expenditures under the Installation Restoration Program.
IMPACT IF NOT PROVIDED: Damage to the environment through fuel contamination of the soils and ground water will worsen. Continued use of this pipeline will potentially jeopardize the health of local inhabitants and interfere with fighter wing operations. The base will remain out of compliance with Florida law and will be subject to fines.
ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EGLIN AIR FORCE BASE, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| REPLACE POL PIPELINE | | FTFA953019 |

Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE POL PIPELINE | FTFA953019 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 OCT 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 204 |
| (b) All Other Design Costs | 102 |
| (c) Total | 306 |
| (d) Contract | |
| (e) In-house | 306 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | AIRCRAFT ENGINE TEST FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.06 | 211-183 | FTFA943027 | 1,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT ENGINE TEST FACILITY | EA | 2 | 500,000 | 1,000 |
| SUPPORTING FACILITIES | | | | 440 |
| UTILITIES | LS | | | ( 40) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | SY | 3,700 | 55 | ( 205) |
| MAINTENANCE SUPPORT FACILITY | SF | 2,400 | 60 | ( 145) |
| SUBTOTAL | | | | 1,440 |
| CONTINGENCY (5%) | | | | 72 |
| TOTAL CONTRACT COST | | | | 1,512 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 91 |
| TOTAL REQUEST | | | | 1,603 |
| TOTAL REQUEST (ROUNDED) | | | | 1,600 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (6,100) |

10. Description of Proposed Construction: Reinforced concrete footings, floor slab, deflector walls and access pavements; utilities connections: and a pre-engineered maintenance support facility; includes site work and necessary support.
Air Conditioning: 5 Tons.

11. REQUIREMENT: 2 EA ADEQUATE: 0 SUBSTANDARD: 2 EA
PROJECT: Provide facility support for installation of two T-9 engine test cells. (Current Mission)
REQUIREMENT: An aircraft engine test facility is required for testing jet engines used on specially modified aircraft which fly test and evaluation missions associated with the development of aircraft armaments, electronic combat systems, target acquisition and weapon delivery systems. The capability to perform operational runs, tests, and troubleshooting of 158 aircraft jet engines ranging from 2,800 to 30,000 pounds of thrust is required. This is in direct support of T-38, F-15, and F-16 fighter aircraft assigned to the 3246th Test Wing. These engines must be run in an enclosed facility to alleviate noise pollution as required by federal and state laws and to protect the on-base and off-base populace from the adverse effects of loud noises.
CURRENT SITUATION: The existing test cells were constructed in the late 1960s and were designed to test engines in use during that era. The cells are badly deteriorated due to the combined effects of heat, water pressure, and vibration created during run-up of the more powerful modern engines. Structural deterioration, consisting of major structural cracks, severe spalling of concrete, and a defective rear thrust beam support, have made it necessary to reduce the maximum thrust limits for engine tests in both test cells. Over 75 major structural cracks, many of which

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EGLIN AIR FORCE BASE, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| AIRCRAFT ENGINE TEST FACILITY | | FTFA943027 |

penetrate the 18 inch walls, have been identified in the exhaust systems of each cell. The extent of vibration damage to the rear thrust beam support in one cell made it necessary to cut back this support. In doing so, the thrust capacity for that cell was reduced from 35,000 pounds to 25,000 pounds for fear of catastrophic failure of this beam. Only our lowest rated engines can now run in this test cell. As tests of newer, more powerful engines continue, the test cells will continue to deteriorate and complete structural failure is likely.

IMPACT IF NOT PROVIDED: The capability to operate and test aircraft engines on base could be completely lost due to total failure of both test cells. Test flights will be delayed, thereby impairing the timely development and production of superior weapon systems needed by the Air Force.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT ENGINE TEST FACILITY | FTFA943027 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 10 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 96 |
| (b) All Other Design Costs | 32 |
| (c) Total | 128 |
| (d) Contract | |
| (e) In-house | 128 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| A/37T-9 TEST CELLS (2 EACH) | 3010 | 94 | 5100 |
| CONTROL CABS AND EQUIPMENT | 3010 | 94 | 1000 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | VEHICLE MAINTENANCE/WAREHOUSE FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 214-425 | FTFA933014 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| VEHICLE MAINTENANCE/WAREHOUSE | | | | |
| FACILITIES | SF | 21,500 | | 1,583 |
| VEHICLE MAINTENANCE FACILITY | SF | 15,000 | 87 | (1,305) |
| WAREHOUSE FACILITY | SF | 5,000 | 45 | ( 225) |
| HAZARDOUS WASTE STORAGE | SP | 1,500 | 35 | ( 53) |
| SUPPORTING FACILITIES | | | | 750 |
| UTILITIES | LS | | | ( 260) |
| PAVEMENTS | LS | | | ( 210) |
| SITE IMPROVEMENTS | LS | | | ( 210) |
| VEHICLE WASHRACK | SF | 2,500 | 28 | ( 70) |
| SUBTOTAL | | | | 2,333 |
| CONTINGENCY (5%) | | | | 117 |
| TOTAL CONTRACT COST | | | | 2,450 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 147 |
| TOTAL REQUEST | | | | 2,597 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, pre-engineered metal building, metal roof system, all pavements, utilities and necessary support. Includes vehicle maintenance and warehouse facilities with vehicle washrack.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 21,700 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct vehicle maintenance and warehouse facilities. (Current Mission)
REQUIREMENT: Permanent facilities of adequate size and configuration are required to complete the final phase of moving the 728th Air Control Squadron (ACS) from Duke Field to Eglin AFB. Adequate facilities are required to maintain the squadron's vehicles and equipment in ready condition for world-wide deployment. This unit controls approximately 200 close air support and interception sorties per month in support of the 33rd Fighter Wing and provides radar surveillance essential to area security.
CURRENT SITUATION: The 728 ACS's maintenance and warehouse functions are at Duke Field, remotely separated from command and operations functions, which are 25 miles away on the main base portion of Eglin AFB. All personnel support is provided on Eglin AFB proper, including billeting and full-time messing. The consolidation of the rest of the 728th ACS to Eglin was provided for by a FY 92 Military Construction project at Eglin. Existing maintenance and warehouse facilities at Duke Field are substandard in construction, configuration, interior and exterior finish, and geographical location. The best facility, a 33,000 square foot aircraft hanger, only offers 10,000 SF suitable to an ACS mission. Distance between facilities poses span of control problems. Unit morale

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| VEHICLE MAINTENANCE/WAREHOUSE FACILITIES | FTFA933014 |

base exchange, and messing services. Particular hardships are imposed on young airmen without personal transportation to travel to and from dormitories and obtain meals. Required vehicle maintenance and warehouse support efforts are severely degraded due to the split locations. Excess maintenance, repair and utility dollars are being expended on substandard facilities.

IMPACT IF NOT PROVIDED: There will be an adverse impact on the mission readineas of the 728th ACS and their critical support of the 33rd Fighter Wing of Eglin AFB. Extreme geographical separation of the unit's maintenance and warehouse facilities from their command and operations facilities will cause delays in equipment maintenance. Personal hardships associated with having to work at a location separated from all personnel, training and quality of life support facilities will continue to degrade morale. Inadequate space in substandard facilities will continue to degrade the operational functions of essential vehicle maintenance.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| VEHICLE MAINTENANCE/WAREHOUSE FACILITIES | FTFA933014 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 06 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 30 |
| (d) Date Design Complete | 93 JUN 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 120 |
| (b) All Other Design Costs | 90 |
| (c) Total | 210 |
| (d) Contract | 24 |
| (e) In-house | 186 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AIR FORCE BASE, FLORIDA | RENOVATE CLIMATIC TEST CHAMBER PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.47.55 | 310-926 | FTFA933026 | 57,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RENOVATE CLIMATIC TEST CHAMBER, PHASE II | SF | 136,500 | 310 | 42,315 |
| SUPPORTING FACILITIES | | | | 11,025 |
| UTILITIES | LS | | | ( 5,325) |
| MONITORING AND CONTROL SYSTEM | LS | | | ( 1,945) |
| FIRE PROTECTION | LS | | | ( 2,475) |
| MISCELLANEOUS SUPPORT | LS | | | ( 795) |
| PAVEMENTS | LS | | | ( 220) |
| SITE IMPROVEMENTS | LS | | | ( 265) |
| SUBTOTAL | | | | 53,340 |
| CONTINGENCY (10%) | | | | 5,334 |
| TOTAL CONTRACT COST | | | | 58,674 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 3,520 |
| TOTAL REQUEST | | | | 62,194 |
| TOTAL REQUEST (ROUNDED) | | | | 62,000 |
| LESS FY 93 AUTHORIZATION/APPROPRIATION | | | | -5,000 |
| FY 94 AUTHORIZATION FOR APPROPRIATION REQUEST | | | | 57,000 |
| FY 94 APPROPRIATION REQUEST | | | | 57,000 |

10. Description of Proposed Construction: Renovate equipment and main test chambers including replacement of wall, ceiling and floor systems, access doors, electrical and monorail lift systems and provide AFFF fire protection system, elevators, etc; renovate engineering and work areas; provide new air make-up unit and monitoring and control system. Upgrade electric service and provide necessary support.
Air Conditioning: 1000 Tons.

11. REQUIREMENT: 140,800 LS ADEQUATE: 3,500 LS SUBSTANDARD: 136,500 LS
PROJECT: Renovate a climatic test chamber, phase 2 of 2. (Current Mission)
REQUIREMENT: A facility is required for the complete environmental testing of aircraft, equipment and weapon systems to simulate the extreme weather conditions that may be encountered anywhere on earth. Performance, durability, reliability and operating parameters must be evaluated under all weather conditions, including rain, wind, fog, snow, ice and extreme heat or cold. The facility must have a make-up air system capable of maintaining temperature and humidity needed for climatic testing of Army, Navy and Air Force weapon systems and equipment. This is the final phase of a two-phased program to upgrade the climatic test hangar.
CURRENT SITUATION: This facility was built over forty years ago during World War II and is currently the only facility in existence that performs the full scale environmental testing of the largest aircraft in the Air Force inventory. The extreme conditions created in the chamber are causing rapid and severe deterioration of the ceiling, wall, floor and duct systems. Deterioration of the vapor barrier causes severe icing conditions within the chamber, resulting in considerable hazards to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| EGLIN AIR FORCE BASE, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| RENOVATE CLIMATIC TEST CHAMBER PHASE II | | FTFA933026 |

personnel and equipment. The electrical system has deteriorated to the point of being unsafe and no longer meets minimum code requirements. Band-aid repairs to this facility are no longer effective.
IMPACT IF NOT PROVIDED: Climatic testing will have to be curtailed at this facility within a few years, making the reliability of much of the new equipment being developed for the US armed forces suspect.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide", or in Air Force Manual 86-2, "Standard Facility Requirements".

AUTHORIZATION AND APPROPRIATION SUMMARY

| | APPROVED BY CONGRESS FY 93 | REQUESTED FY 94 |
|---|---|---|
| AUTHORIZATION OF THE PROJECT | 64.0M | 0 |
| AUTHORIZATION FOR APPROPRIATION | 5.0M | 57.0M |
| APPROPRIATION | 5.0M | 57.0M |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RENOVATE CLIMATIC TEST CHAMBER PHASE II | FTFA933026 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 91 JUL 26 |
| (b) Percent Complete as of Jan 93 | 80% |
| (c) Date 35% Designed | 91 DEC 15 |
| (d) Date Design Complete | 93 JUN 04 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 3540 |
| (b) All Other Design Costs | 2210 |
| (c) Total | 5750 |
| (d) Contract | 5590 |
| (e) In-house | 160 |

(4) Construction Start 94 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA COST INDEX |
|---|---|---|
| EGLIN AUXILIARY FIELD NO 9, FLORIDA | COMMAND | 0.83 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 924 | 5039 | 472 | 28 | 77 | | 589 | 491 | 73 | 7,693 |
| b. End FY 1998 | 947 | 5247 | 464 | 28 | 81 | | 589 | 491 | 73 | 7,920 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,634) | |
| b. Inventory Total As Of: (30 SEP 92) | 112,839 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 7,829 |
| e. Authorization Included In Following Program: (FY 1995) | 2,300 |
| f. Planned In Next Four Program Years: | 21,350 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 144,318 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORIES | 276 PN | 4,479 | JUL 92 | JUL 93 |
| 832-266 | UPGRADE SANITARY SEWER SYSTEM | 50,000 LF | 1,750 | JUN 92 | AUG 93 |
| 871-183 | UPGRADE STORM SEWAGE SYSTEM | 80,000 LF | 1,600 | JUN 92 | AUG 93 |
| | | TOTAL: | 7,829 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 880-212 | INSTALL FIRE SUPPRESSION SYSTEM | 53,200 SF | 2,300 |
| | | TOTAL: | 2,300 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 130-835 | ADD TO SECURITY POLICE OPERATIONS | 2,500 SF | 540 |
| 171-476 | COMBAT ARMS TNG MAINTENANCE | 16,000 SF | 1,900 |
| 411-135 | JET FUEL STORAGE | 20,000 BL | 1,250 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED HSG | 276 PN | 9,000 |
| 890-181 | ALTER UTILITY LINE DUCTS | LS | 560 |

10. Mission or Major Functions: Headquarters Special Operations Command; a special operations wing with five squadrons (AC-130 and MC-130 aircraft, and MH-53 and MH-60 helicopters); Air Force Special Operations School; Special Missions Operational Test and Evaluation Center; a special tactics group; and Air Combat Command air control and training groups.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AUXILIARY FIELD NO 9, FLORIDA | ADD TO AND ALTER DORMITORIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | FTEV913001 | 4,479 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (276 PN) | SF | 58,000 | | 3,020 |
| ALTERATION | SF | 50,500 | 50 | (2,525) |
| ADDITION (BALCONIES) | SF | 7,500 | 66 | ( 495) |
| SUPPORTING FACILITIES | | 1 | | 835 |
| UTILITIES | LS | | | ( 240) |
| PAVEMENTS | LS | | | ( 125) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| ASBESTOS REMOVAL | LS | | | ( 100) |
| COMMUNICATIONS SUPPORT | LS | | | ( 270) |
| SUBTOTAL | | | | 3,855 |
| CONTINGENCY (10%) | | | | 386 |
| TOTAL CONTRACT COST | | | | 4,241 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 233 |
| TOTAL REQUEST | | | | 4,474 |
| TOTAL REQUEST (ROUNDED) | | | | 4,479 |

10. Description of Proposed Construction: Addition of new balconies and exterior room entrances. Demolition of existing interior partitions. Renovation to include new room-bath-room modules, laundries, storage, lounge areas, asbestos removal, converting flat roof to sloped roof and necessary support.
Air Conditioning: 140 Tons. Grade Mix: 195 E1-E4; 64 E5-E6; 17 E7-E9.

11. REQUIREMENT: 1,864 PN ADEQUATE: 1,530 PN SUBSTANDARD: 492 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The facilities to be upgraded were constructed in the 1950's. Inefficiencies include lack of privacy, inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems and central latrines. This project will upgrade two dorms and is the second phase of a three phase program to upgrade base dormitories. Current dorm occupancy rate at this base is 86 percent.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist and morale, productivity and career satisfaction of the enlisted force will continue to be degraded.
ADDITIONAL: A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project. The analysis indicates the renovation alternative is the most economical. This project meets the criteria scope specified in Part II of Military Handbook 1190,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | FTEV913001 |

"Facility Planning and Design Guide". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | FTEV913001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 20 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 14 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 162 |
| (b) All Other Design Costs | 268 |
| (c) Total | 430 |
| (d) Contract | 271 |
| (e) In-house | 159 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AUXILIARY FIELD NO 9, FLORIDA | UPGRADE SANITARY SEWAGE SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 832-266 | FTEV943021 | 1,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE SANITARY SEWAGE SYSTEM | LF | 50,000 | 21 | 1,050 |
| SUPPORTING FACILITIES | | | | 450 |
| SITE IMPROVEMENTS/PAVEMENTS | LS | | | ( 450) |
| SUBTOTAL | | | | 1,500 |
| CONTINGENCY (10%) | | | | 150 |
| TOTAL CONTRACT COST | | | | 1,650 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 99 |
| TOTAL REQUEST | | | | 1,749 |
| TOTAL REQUEST (ROUNDED) | | | | 1,750 |

10. Description of Proposed Construction: Excavate and remove vitrious clay pipe and replace with PVC pipe, repair/replace manholes. Includes pavement repair and support as required.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewage system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project, required to bring the existing sanitary sewage system into compliance with current state and federal environmental regulations. It will eliminate excessive infiltration/inflow to prevent hydraulic overloading in the sanitary sewage collection system.

CURRENT SITUATION: The base sanitary sewer system is antiquated and unable to meet the current environmental compliance requirements. Constant sewage line leaks, problems associated with excessive infiltration/inflow to the existing sewage treatment plant, and hydraulic overloading have resulted in Hurlburt Field exceeding operating permit limits. Even with the new sewage treatment plant in the FY90 MILCON program, hydraulic overloading will still occur and cause continuous violations of state discharge permit limits. This project corrects violations of Chapter 17-600.42, 17-600.500 and 17-600.530 of the Florida Administrative Code and Chapter 403.088 of the Florida Statutes.

IMPACT IF NOT PROVIDED: The sanitary sewage system will continue to deteriorate, thus increasing the amount of excessive infiltration/inflow to the existing and proposed sewage treatment plant. This will expose the Air Force and DOD to fines and possible litigation.

ADDITIONAL: There is no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWAGE SYSTEM | FTEV943021 |

"Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWAGE SYSTEM | FTEV943021 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 14 |
| (d) Date Design Complete | 93 AUG 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 84 |
| (b) All Other Design Costs | 56 |
| (c) Total | 140 |
| (d) Contract | 35 |
| (e) In-house | 105 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EGLIN AUXILIARY FIELD NO 9, FLORIDA | UPGRADE STORM SEWAGE SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 871-183 | FTEV943020 | 1,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE,STORM SEWAGE SYSTEM | LF | 80,000 | 15 | 1,200 |
| SUPPORTING FACILITIES | | | | 160 |
| UTILITIES RELOCATION | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 60) |
| SUBTOTAL | | | | 1,360 |
| CONTINGENCY (10%) | | | | 136 |
| TOTAL CONTRACT COST | | | | 1,496 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 90 |
| TOTAL REQUEST | | | | 1,586 |
| TOTAL REQUEST (ROUNDED) | | | | 1,600 |

10. Description of Proposed Construction: Reshape drainage ditches, regrade, install curbs, gutters and construct check dam. Includes relocation of utilities, pavement repair and support as required.

11. REQUIREMENT: As required.

PROJECT: Upgrade storm sewage system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project, required to bring the existing storm water drainage system into compliance with current state and federal environmental regulations. This project will upgrade stormwater drainage systems for compliance with State of Florida Department of Environmental Regulations standards as well as provide spill contingency check dam locations in accordance with the Clean Water Act.

CURRENT SITUATION: Existing stormwater drainage system is out of compliance with Chapter 17-25 of the Florida Administrative Code and Chapter 403 of the Florida Statutes. The deteriorated storm sewer network contributes to sewage plant overload because many of the sanitary sewers are located in low-lying areas with poor drainage. Ponding storm water promotes excessive infiltration/inflow in the sanitary system contributing to hydraulic overload to the sewage treatment plant. Letters of non-compliance have been issued by the State of Florida Department of Environmental Regulation because the storm water drainage system is out of compliance.

IMPACT IF NOT PROVIDED: The storm water disposal system will continue to deteriorate, thus increasing the amount of excessive infiltration/inflow to the existing and proposed sewage treatment plant which is included in the FY90 MILCON program. This will expose the Air Force and DOD to fines and possible litigation.

ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STORM SEWAGE SYSTEM | FTEV943020 |

Military Handbook 1190, "Facility Planning and design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EGLIN AUXILIARY FIELD NO 9, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STORM SEWAGE SYSTEM | FTEV943020 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUN 10 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 AUG 14 |
| (d) | Date Design Complete | 93 AUG 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 76 |
| (b) | All Other Design Costs | 52 |
| (c) | Total | 128 |
| (d) | Contract | 35 |
| (e) | In-house | 93 |
| (4) | Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| PATRICK AIR FORCE BASE, FLORIDA | AIR FORCE SPACE COMMAND | 0.91 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 473 | 2317 | 1054 | | | | 33 | 531 | 15 | 4,423 |
| b. End FY 1998 | 462 | 1704 | 960 | | | | 33 | 531 | 15 | 3,705 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 2,341) | |
| b. Inventory Total As Of: (30 SEP 92) | 148,294 |
| c. Authorization Not Yet In Inventory: | 7,700 |
| d. Authorization Requested In This Program: | 3,850 |
| e. Authorization Included In Following Program: (FY 1995) | 2,200 |
| f. Planned In Next Four Program Years: | 39,700 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 201,744 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 211-111 | ALTER MAINTENANCE HANGAR | 65,155 SF | 2,000 | AUG 92 | JUL 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 44 EA | 1,850 | | |
| | | TOTAL: | 3,850 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 149-962 | CONTROL TOWER | 5,300 SF | 2,200 |
| | | TOTAL: | 2,200 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 141-783 | PASSENGER TERMINAL & BASE OPERATIONS | 48,400 SF | 9,800 |
| 214-425 | VEHICLE MAINTENANCE/MOTOR POOL FACILITY | 42,000 SF | 6,200 |
| 219-944 | BASE ENGINEERING COMPLEX | 43,400 SF | 4,700 |
| 442-758 | BASE SUPPLY/TRAFFIC MANAGEMENT COMPLEX | 166,000 SF | 12,000 |
| 721-312 | UPGRADE DORMITORIES | 568 PN | 3,000 |

10. Mission or Major Functions: A space wing; the Air Force Technical Applications Center; two Air Mobility Command air rescue squadrons (HH-3 helicopters and HC-130 aircraft); and an Air Combat Command combat communications group. Also, the temporary beddown location for the Air Force Reserve air rescue squadron (MH-60 helicopters) from Homestead AFB, FL. Major tenants include the DOD Equal Opportunity Management Institute and a State Department aviation unit.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 4,000 |
| c. Occupational safety and health: | 2,200 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PATRICK AIR FORCE BASE, FLORIDA | ALTER MAINTENANCE HANGAR |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.41.02 | 211-111 | SXHT933095 | 2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER MAINTENANCE HANGAR | SF | 65,000 | 23 | 1,495 |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 165) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 1,735 |
| CONTINGENCY (10%) | | | | 174 |
| TOTAL CONTRACT COST | | | | 1,909 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 115 |
| TOTAL REQUEST | | | | 2,024 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: All electrical, mechanical and structural work necessary to alter hangar. Alter space for NDI, PMEL, avionics shops, aircraft maintenance and transient alert. Includes altering hangar door to accommodate tail section of HC-130 aircraft and necessary support.

11. REQUIREMENT: 65,000 SF ADEQUATE: 0 SUBSTANDARD: 65,000 SF
PROJECT: Alter maintenance hangar. (New Mission)
REQUIREMENT: Hangar alterations are required to reconfigure existing maintenance hangar to support the beddown of HC-130 and MH-60G aircraft which operate in support of aerospace rescue and recovery operations. Adequate space is required for Non Destructive Inspection (NDI), Precision Measurement Equipment Laboratory (PMEL), avionics shops and transient alert operations. The hangar doors must be altered to allow the HC-130 aircraft to be fully enclosed to allow safe aircraft lifting operations out of the influence of the local gusty winds.
CURRENT SITUATION: The existing aircraft maintenance hangar is not properly configured to support beddown of the HC-130 and MH-60G aircraft. The facility currently supports five HH-3 aircraft. Space is provided for NDI, PMEL, avionics, fabrication shops, life support, engine shop and transient alert. Reconfiguration is required to provide hangar space for five HC-130 aircraft and six MH-60G aircraft. The HC-130 aircraft are new aircraft while the MH-60G aircraft replace the HH-3's. In order to provide the space necessary for reconfiguration, the fabrication branch, life support and engine shop operations will be relocated to an adjacent facility. This vacated space will then be reconfigured to provide space for the newly assigned HC-130 and the MH-60G aircraft. Reconfiguration of existing maintenance space and alteration of the hangar doors will provide

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER MAINTENANCE HANGAR | SXHT933095 |

an adequate maintenance hangar to support the beddown of the HC-130 and MH-60G aircraft.

IMPACT IF NOT PROVIDED: Lack of an adequate maintenance facility will decrease air rescue's ability to communicate, locate and navigate to perform their assigned mission in support of the space shuttle and other high national interest missions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation and new construction) was done. It indicates that renovation is the only option that satisfies mission beddown construction requirements. Therefore a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force atructure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER MAINTENANCE HANGAR | SXHT933095 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 28 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 12 |
| (d) | Date Design Complete | 93 JUL 14 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 30 |
| (b) | All Other Design Costs | 10 |
| (c) | Total | 40 |
| (d) | Contract | 30 |
| (e) | In-house | 10 |
| (4) | Construction Start | 94 JAN |

b. Equipment asaociated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PATRICK AIR FORCE BASE, FLORIDA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.58.56 | 411-135 | SXHT933004 | 1,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 515 |
| REMOVE REGULATED USTS | EA | 8 | 4,380 | ( 35) |
| INSTALL REG REPLACEMENT ASTS | EA | 8 | 15,000 | ( 120) |
| UPGRADE REGULATED ASTS | EA | 15 | 24,000 | ( 360) |
| SUPPORTING FACILITIES | | | | 1,145 |
| SITE ASSESSMENTS AND REMEDIATION | LS | | | ( 150) |
| BASEWIDE LEAK DETEC MONITORING SYS | LS | | | ( 995) |
| SUBTOTAL | | | | 1,660 |
| CONTINGENCY (5%) | | | | 83 |
| TOTAL CONTRACT COST | | | | 1,743 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 105 |
| TOTAL REQUEST | | | | 1,848 |
| TOTAL REQUEST (ROUNDED) | | | | 1,850 |

10. Description of Proposed Construction: Provides for removal of 8 underground fuel storage tanks (USTs); installation of 8 aboveground storage tanks (ASTs); and upgrades 15 aboveground storage tanks.

11. REQUIREMENT: As required.

PROJECT: Remove and replace, or upgrade fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Fuel storage tanks must be in compliance with State and Federal environmental regulations and Air Force policy. These include Florida Department of Environmental Regulation (FDER), Ch. 17-761 and 17-762, Federal regulations 40 CFR 280, and Air Force UST Management Strategy. Thirteen USTs to be removed are subject to the following deadlines: tank replacement, 5 ea, Dec 1995 (FDER 17-761.510(6) Table 1, installed 1978, R required); secondary containment, interstitial monitoring, double-walled piping, and overfill protection, 4 ea, Dec 1998 (FDER 17-761.510(6) Table 1, installed 1981-1984, R,C,P, & L required). ASTs to be upgraded are regulated by 17-762.600(5) and are subject to a Dec 1993 deadline for release detection for integral piping.

CURRENT SITUATION: Thirteen UST systems are regulated and are subject to 1995 and 1998 FDER UST deadlines. Fifteen AST systems are regulated and subject to 1993 FDER AST regulations.

IMPACT IF NOT PROVIDED: Compliance with Florida and federal regulations will not be achieved. Noncompliance can result in fines, closure of facilities, or possibly criminal prosecution. Tanks will continue to deteriorate, further increasing risks of leaks and spills. USTs which have been leaking will continue to release pollutants to soil and groundwater, increasing future cleanup costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | SXHT933004 |

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | SXHT933004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 92

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| TYNDALL AIR FORCE BASE, FLORIDA | AIR COMBAT COMMAND | 0.86 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 789 | 3838 | 951 | 143 | 167 | | 7 | 3 | 27 | 5,925 |
| b. End FY 1998 | 754 | 3722 | 964 | 143 | 167 | | 7 | 3 | 27 | 5,787 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 28,906) | |
| b. Inventory Total As Of: (30 SEP 92) | 225,507 |
| c. Authorization Not Yet In Inventory: | 9,350 |
| d. Authorization Requested In This Program: | 2,600 |
| e. Authorization Included In Following Program: (FY 1995) | 2,500 |
| f. Planned In Next Four Program Years: | 11,050 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 251,007 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 442-758 | BASE SUPPLY LOGISTICS CENTER | 21,400 SF | 2,600 | MAY 87 | JUN 89 |
| | | TOTAL: | 2,600 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,500 |
| | | TOTAL: | 2,500 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 219-944 | BASE MAINTENANCE SHOP | 70,000 SF | 4,750 |
| 610-281 | ALTER MOBILITY FACILITY | 34,535 SF | 1,500 |
| 724-417 | VISITING OFFICERS QUARTERS | 80 PN | 3,550 |
| 841-427 | ELEVATED WATER TANK | 500 KG | 1,250 |

10. Mission or Major Functions: Headquarters First Air Force; a fighter wing with three F-15 squadrons which is responsible for training all F-15 aircrews, a weapons evaluation group, and a tactical aerial targets squadron (QF-106 aircraft); Southwest Air Defense Sector; the Air Force Civil Engineering Support Agency; and an Air National Guard fighter interceptor detachment (F-16 aircraft). Also, the temporary beddown location for the Air Training Command Water Survival School.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 800 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TYNDALL AIR FORCE BASE, FLORIDA, | BASE SUPPLY LOGISTICS CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 442-758 | XLWU883012 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE SUPPLY LOGISTICS CENTER | SF | 21,400 | 92 | 1,969 |
| SUPPORTING FACILITIES | | | | 385 |
| SITE IMPROVEMENTS | LS | | | ( 80) |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | SY | 2,350 | 45 | ( 105) |
| DEMOLITION (INCLUDING ASBESTOS) | SF | 20,000 | 5 | ( 100) |
| SUBTOTAL | | | | 2,354 |
| CONTINGENCY (5%) | | | | 118 |
| TOTAL CONTRACT COST | | | | 2,472 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 148 |
| TOTAL REQUEST | | | | 2,620 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Concrete slab floor, steel frame, masonry walls, two story framing and roof system. Work includes all utilities, interior finishes, parking, and landscaping.
Air Conditioning: 55 Tons.

11. REQUIREMENT: 21,400 SF ADEQUATE: 0 SUBSTANDARD: 16,740 SF
PROJECT: Construct a base supply logistics center. (Current Mission)
REQUIREMENT: A facility of adequate size and configuration is required for the efficient management of base supply operations and assets in order to support base and flying missions. Associated functions include stock control, requisitions, management systems, funds, supply readiness, material management, demand processing unit and squadron administration. This is Phase I of a three-phase program and constructs a base supply support and management facility. Phase II is for warehouse space and is programmed in FY 96 at $3.2 million; and Phase III is hazardous material warehouse space and is programmed in FY 97 at $2.0 million.
CURRENT SITUATION: The widespread abestos contamination in the existing base supply logistics facility presents a serious potential health hazard to employees and customers. This WWII wood-frame building constructed on-slab has been rehabilitated several times over the past 48 years. Through these progressions of upgrades, the attic space has become littered with air cell asbestos pipe insulation debris. The fiber release of the discarded asbestos insulation has contaminated the entire attic space. The contamination has been confined to this space and all routine maintenance work in this facility has been suspended for the last three years. Due to the suspension of normal maintenance and repair, antiquated lighting and electrical power systems cannot be upgraded. The electrical system is in violation of national electrical codes. Computer and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| TYNDALL AIR FORCE BASE, FLORIDA, | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| BASE SUPPLY LOGISTICS CENTER | | XLWU883012 |

communication systems cannot be expanded or connected to other facilities without routing dedicated cables through the attic space. This limitation prevents the installation of a computer network to span the physical separation of supply functions and reduce the current operational inefficiencies. The facility is not equipped with a fire sprinkler system nor does it have any fire wall partitions. These fire deficiencies in this wood-frame building pose a serious fire hazard. The wood construction has been plagued with termites over the years; however, routine inspections and corrective measures have been only partially successful. Unfortunately there are some areas that are impossible to inspect and, with the building having undergone severe settling over the years, the structural integrity is suspect. This project will demolish one facility (20,034 square feet) which is in the way of construction.
IMPACT IF NOT PROVIDED: People working in this facility will continue to be exposed to the risks of fire and asbestos. Inefficiencies associated with the condition and layout of the existing facility will remain unsolved.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TYNDALL AIR FORCE BASE, FLORIDA,

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE SUPPLY LOGISTICS CENTER | XLWU883012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 87 MAY 15 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 87 MAY 21 |
| (d) Date Design Complete | 89 JUN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 478 |
| (b) All Other Design Costs | 305 |
| (c) Total | 783 |
| (d) Contract | 497 |
| (e) In-house | 286 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | AIR FORCE MATERIEL COMMAND | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 754 | 3150 | 13599 | | | | | | | 17,503 |
| b. End FY 1998 | 725 | 3025 | 11313 | | | | | | | 15,063 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 8,720) | |
| b. Inventory Total As Of: (30 SEP 92) | 466,871 |
| c. Authorization Not Yet In Inventory: | 61,720 |
| d. Authorization Requested In This Program: | 43,370 |
| e. Authorization Included In Following Program: (FY 1995) | 27,950 |
| f. Planned In Next Four Program Years: | 97,120 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 697,031 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 141-000 | JSTARS ADD TO AND ALTER OPERATIONS COMPLEX | 45,000 SF | 4,100 | SEP 92 | APR 93 |
| 141-753 | JSTARS SQUADRON OPERATIONS/ AMU | 61,000 SF | 7,500 | SEP 92 | MAR 93 |
| 211-111 | JSTARS ADD TO AND ALTER MAINTENANCE COMPLEX | 110,000 SF | 9,300 | SEP 92 | APR 93 |
| 218-712 | AIRCRAFT SUPPORT EQUIPMENT PAINT FACILITY | 3,600 SF | 970 | SEP 92 | JUN 93 |
| 610-711 | ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER | 23,000 SF | 3,000 | SEP 92 | SEP 93 |
| 721-312 | ADD TO AND ALTER DORMITORIES (DBOF) | 272 PN | 4,300 | AUG 92 | SEP 93 |
| 826-123 | JSTARS ADD TO AND ALTER UTILITIES | LS | 3,500 | DEC 92 | AUG 93 |
| 831-155 | UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS | LS | 10,700 | MAY 92 | JUN 93 |
| | | TOTAL: | 43,370 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 610-127 | BASE ENGINEER COMPLEX, PHASE II | 29,500 SF | 3,650 |
| 610-285 | JSTARS ADD TO INTEGRATED SUPPORT FACILITY | 14,000 SF | 3,100 |
| 610-675 | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II | 370,000 SF | 4,200 |
| 721-312 | J-STARS DORMITORY | 288 PN | 5,525 |
| 723-388 | JSTARS EXPANDED FLIGHT KITCHEN | 8,300 SF | 1,850 |
| 813-231 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LS | 3,800 |
| 871-183 | UPGRADE STORM DRAINAGE SYSTEM | LS | 2,000 |
| 900-000 | JSTARS UTILITIES/MISCELLANEOUS SUPPORT | LS | 3,825 |
| | | TOTAL: | 27,950 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | AIR FORCE MATERIEL COMMAND | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 211-154 | AIRCRAFT ORGANIZATIONAL MAINT | 90,000 SF | 7,000 |
| 211-173 | LARGE ACFT MAINTENANCE DOCK | 34,200 SF | 2,700 |
| 211-179 | FUEL SYSTEMS MAINTENANCE DOCK | 35,000 SF | 6,870 |
| 422-256 | AIM-120 MISSILE SUPPORT FACILITIES | 6,600 SF | 1,200 |
| 442-758 | MOBILIZATION/MAINTENANCE ISSUE FACILITY | 70,000 SF | 4,700 |

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support, & depot-level maintenance of F-15, C-130, & C-141 aircraft, helicopters; tactical missiles, & avionics & electronic warfare systems; HQ AFRES; AMC air refueling wing with two KC-135 squadrons; ACC combat communications group; & an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars. Also, the main operating base for the Joint Surveillance & Target Attack Radar System (JSTARS) aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 6,000 |
| b. Water pollution: | 4,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | JSTARS ADD TO AND ALTER OPERATIONS COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.47.70 TIARA | 141-000 | UHHZ943033 | 4,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| JSTARS ADD TO AND ALTER OPERATIONS COMPLEX | SF | 44,900 | | 2,910 |
| WING HEADQUARTERS ALTERATION | SF | 12,000 | 58 | ( 696) |
| WING HEADQUARTERS ADDITION | SF | 6,200 | 105 | ( 651) |
| FIELD TRAINING ALTERATION | SF | 10,800 | 24 | ( 259) |
| FIELD TRAINING ADDITION | SF | 3,000 | 82 | ( 246) |
| CONSTRUCT LIFE SUPPORT FACILITY | SF | 12,900 | 82 | (1,058) |
| SUPPORTING FACILITIES | | | | 625 |
| UTILITIES /SITE PREPARATION/PAVEMENTS | LS | | | ( 385) |
| SPECIAL FOUNDATIONS AND PILINGS | LS | | | ( 240) |
| SUBTOTAL | | | | 3,535 |
| CONTINGENCY (10%) | | | | 354 |
| TOTAL CONTRACT COST | | | | 3,889 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 233 |
| TOTAL REQUEST | | | | 4,122 |
| TOTAL REQUEST (ROUNDED) | | | | 4,100 |

10. Description of Proposed Construction: Construction includes reinforced concrete footings, floor slab and foundations, insulated maintenance free exterior walls, utilities, site improvements and necessary support. Alteration includes upgraded HVAC, electrical, fire detection, and security systems.
Air Conditioning: 110 Tons.

11. REQUIREMENT: 68,800 SF ADEQUATE: 23,000 SF SUBSTANDARD: 54,000 SF
PROJECT: Add to and alter the Wing Headquarters facility and a field training detachment (FTD) facility. Construct a life support facility. (New Mission)
REQUIREMENT: Management space, a command post, and space for support functions associated with the Joint Surveillance Target Attack Radar System (STARS) mission are required for the Wing Commander, the Operations Group Commander, and their staffs. Additional space is required in the FTD facility to provide technical instruction, mobile training sets, initial qualification training, and continuation training for Joint STARS maintenance personnel. The facility must be configured to accommodate the Computer Based Instructional Training System (CBITS). The Life Support Facility is required for storing and maintaining aircrew life support systems. A workshop area is required for servicing of equipment, and a logistics area is required for supervision, records and equipment distribution. Most of the facility will be used for controlled storage areas. All alteration and construction work associated with this project must be complete prior to the first aircraft arrival in January 1996.
CURRENT SITUATION: All available management and training facilities are being fully utilized by other missions; thus they cannot accommodate Joint STARS without being expanded. No administrative facility is large enough

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ROBINS AIR FORCE BASE, GEORGIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| JSTARS ADD TO AND ALTER OPERATIONS COMPLEX | | UHHZ943033 |

or configured properly to accept the new headquarters function and meet TEMPEST security requirements. Likewise, the existing FTD facility cannot accommodate the complexity and size of Joint STARS mobile training sets/training aids, special tools, test equipment and training accessories in addition to their current training workload generated by KC-135 aircraft. A raised floor is required for the training modules, and the existing facility will not accommodate raised flooring. The KC-135 life support function is housed in a corner of the supply warehouse. Site constraints prohibit expansion of that portion of the building, plus the warehouse space is needed to meet the increased supply demands of the Joint STARS mission. The space vacated by the existing life support shop will be converted back to warehouse space in an FY 94 "JSTARS Add to and Alter Maintenance Complex" (UHHZ943032). No other base facility is available for modification to meet the requirement of the Joint STARS/KC-135 life support functions.

IMPACT IF NOT PROVIDED: Failure to accomplish any portion of this project will result in the inability to support Joint STARS at this base and will adversely affect the combat mission capability of the Air Force, Army, and Allied units.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." Joint STARS is an Air Force/Army system for real time detection, tracking, and attack of moving and stationary ground targets. The system will consist of an airborne segment on board E-8C configured aircraft and a mobile ground communication segment. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS ADD TO AND ALTER OPERATIONS COMPLEX | UHHZ943033 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 30 |
| (d) Date Design Complete | 93 APR 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 251 |
| (b) All Other Design Costs | 103 |
| (c) Total | 354 |
| (d) Contract | 251 |
| (e) In-house | 103 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | JSTARS SQUADRON OPERATIONS/ AMU |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.47.70 TIARA | 141-753 | UHHZ943031 | 7,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| JSTARS SQUADRON OPERATIONS/ AMU | SF | 61,200 | | 5,387 |
| SQUADRON OPERATIONS | SF | 43,000 | 91 | (3,913) |
| AIRCRAFT MAINT UNIT | SF | 16,000 | 81 | (1,296) |
| RELOCATE T-37 OPERATIONS/MAINT FAC | SF | 2,200 | 81 | ( 178) |
| SUPPORTING FACILITIES | | | | 1,345 |
| UTILITIES | LS | | | ( 295) |
| PAVEMENTS | LS | | | ( 425) |
| SITE IMPROVEMENTS | LS | | | ( 195) |
| SPECIAL FOUNDATIONS | LS | | | ( 430) |
| SUBTOTAL | | | | 6,732 |
| CONTINGENCY (5%) | | | | 337 |
| TOTAL CONTRACT COST | | | | 7,069 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 424 |
| TOTAL REQUEST | | | | 7,493 |
| TOTAL REQUEST (ROUNDED) | | | | 7,500 |

10. Description of Proposed Construction: Reinforced concrete footings, foundations, and floor slab, masonry exterior walls with maintenance free exterior surfaces, multi-story structural steel frame, sloped roof, electric security system, landscaping, connection to central chilled water plant, and all other utilities and necessary support to provide a complete and usable facility. Includes 1,950 SF vault for squadron operations. Air Conditioning: 340 Tons.

11. REQUIREMENT: As required.

PROJECT: Construct a squadron operations/AMU facility and a T-37 operations and maintenance facility. (New Mission)

REQUIREMENT: This squadron operations/AMU facility is required to support the first of two Joint Surveillance Target Attack Radar System (STARS) squadrons to be assigned to this base. The facility should be located adjacent to the flightline to facilitate maintenance of JSTARS aircraft. The squadron operations facility is required for flight planning, briefing and critique of combat crews and to direct flight operations. It should be located with its respective maintenance unit. The AMU is required to perform maintenance on the various E-8C airframe systems and should be located adjacent to the flightline to optimize maintenance effectiveness. In addition, a training room is required for ongoing training of maintenance crews. Due to site constraints, the squadron operations facility and part of the AMU must be multi-story construction. An operations and maintenance facility is also required to support the T-37 Accelerated Copilot Enrichment (ACE) training program. The existing facility will be displaced by the FY 93 JSTARS apron expansion.

CURRENT SITUATION: There are no adequate facilities available for use as a squadron operations or AMU facility at this installation. Existing

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS SQUADRON OPERATIONS/ AMU | UHHZ943031 |

squadron operations facilities are being used by the KC-135 squadrons and are not large enough for the unique requirements of the JSTARS mission. The JSTARS crew consists of 22 personnel per aircraft versus four per KC-135; thus, a larger squadron operations facility is required. Existing AMU facilities are also fully utilized by existing maintenance operations. Currently, there are four T-37 aircraft assigned to support copilot training for the 19th Air Refueling Wing. The aircraft operations and maintenance facility for the T-37s is being displaced by the FY 93 project, "JSTARS Aircraft Parking Apron," because the current T-37 facility is located on the only area available for ramp expansion to support the Joint STARS beddown.

IMPACT IF NOT PROVIDED: Squadron operations, and aircraft maintenance functions associated with the E-8C aircraft cannot be implemented effectively until this project is completed.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. Joint STARS is an Air Force/Army program for real time detection, tracking, and attack on moving and stationary enemy ground targets. The system will consist of an airborne segment on board an E-8C configured aircraft and a mobile ground communication segment.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS SQUADRON OPERATIONS/ AMU | UHHZ943031 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 30 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 NOV 30 |
| (d) | Date Design Complete | 93 MAR 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 195 |
| (b) | All Other Design Costs | 84 |
| (c) | Total | 279 |
| (d) | Contract | 195 |
| (e) | In-house | 84 |
| (4) Construction Start | | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | JSTARS ADD TO AND ALTER MAINTENANCE COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.47.70 TIARA | 211-111 | UHHZ943032 | 9,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| JSTARS ADD TO AND ALTER MAINT COMPLEX | | | | 6,484 |
| CONSTRUCT MULTIPURPOSE HANGAR | SF | 51,500 | 100 | (5,150) |
| ALTER AIRCRAFT PARTS STORE & WAREHOUSE | SF | 40,000 | 9 | ( 360) |
| CONST VAULT IN PARTS STORE/WAREHOUSE | SF | 3,000 | 100 | ( 300) |
| ALTER ENVIRONMENTAL TEST FACILITY | SF | 4,600 | 50 | ( 230) |
| ALTER AVIONICS & MAINTENANCE FACILITY | SF | 11,100 | 40 | ( 444) |
| SUPPORTING FACILITIES | | | | 1,860 |
| UTILITIES/SPECIAL AIR HANDLING | LS | | | (1,630) |
| SPECIAL FOUNDATIONS/PAVEMENTS | LS | | | ( 230) |
| SUBTOTAL | | | | 8,344 |
| CONTINGENCY (5%) | | | | 417 |
| TOTAL CONTRACT COST | | | | 8,761 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 526 |
| TOTAL REQUEST | | | | 9,287 |
| TOTAL REQUEST (ROUNDED) | | | | 9,300 |

10. Description of Proposed Construction: Reinforced concrete footings, special foundations for high water table and low bearing capacity soils, concrete floor slabs, masonry walls, fire protection, aircraft access pavement to hangar, utilities, site improvements and parking, system O&M manuals and all necessary support.
Air Conditioning: 220 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a hangar; add to and alter a warehouse to serve as a parts store; alter facilities for aircraft environmental and avionics functions. (New Mission)
REQUIREMENT: A large aircraft hangar is required to fully enclose the Joint Surveillance Target Attack Radar System (STARS) aircraft to allow removal and maintenance of the radar and sensor equipment. The same facility will be used to perform airframe maintenance and corrosion control and serve as a parts fabrication shop. An air handling system is required to safely filter volatile organic compounds and to create optimum airflow for paint application. A warehouse to serve as an aircraft generation squadron (AGS) parts store and to distribute mobility readiness spares packages (MRSP) is required to support both Joint STARS and KC-135 squadrons. The 3,000 SF addition to the warehouse is a secure storage area required for classified contents of the MRSPs. Facilities are also required to support a Contractor Operated Maintenance and Base Supply (COMBS), part of Joint STARS contractor-operated supply and maintenance support. A facility is required for avionics maintenance and maintenance and logistics management functions.
CURRENT SITUATION: No facility exists to fully enclose the Joint STARS aircraft and protect the expensive, unique electronics during maintenance.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS ADD TO AND ALTER MAINTENANCE COMPLEX | UHHZ943032 |

Existing hangars are inadequate in size and are fully used by aircraft currently assigned to the base. There is no facility at Robins to handle Joint STARS corrosion control requirements in compliance with the Clean Air Act and Occupational Safety and Health regulations. Existing corrosion control facilities at Robins are already in full use to support other assigned aircraft. The existing aircraft parts store and warehouse are not large enough to accommodate both the E-8 and KC-135 squadrons. Combining both warehouse operations in a single facility will eliminate duplication of warehouse space. Life support currently occupies a portion of this building, but will relocate to the FY 94 "JSTARS Add to and Alter Operations Complex," freeing up warehouse space. Existing facilities for environmental systems and avionics maintenance are not properly configured to accommodate Joint STARS equipment. Additionally, space is not available for maintenance and logistics management staffs.
IMPACT IF NOT PROVIDED: The base will not be able to adequately support the beddown of Joint STARS. New mission aircraft will not receive corrosion control and required maintenance. Failure to maintain each aircraft in a safe and ready state will adversely affect the combat mission capability of the Air Force, Army, and Allied battle units.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." This project is critical to the beddown of Joint STARS, which is an Air Force/Army program for real time detection, tracking and attack of moving and stationary ground targets. The system will consist of an airborne segment on board E-8C configured aircraft and a mobile ground communication segment. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS ADD TO AND ALTER MAINTENANCE COMPLEX | UHHZ943032 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 30 |
| (d) Date Design Complete | 93 APR 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 447 |
| (b) All Other Design Costs | 198 |
| (c) Total | 645 |
| (d) Contract | 447 |
| (e) In-house | 198 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 610-711 | UHHZ903000 | 3,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER LOGISTICAL SYSTEMS | | | | |
| OPERATIONS CENTER | LS | | | 2,308 |
| ADDITION | SF | 23,000 | 96 | (2,208) |
| ALTERATION | LS | | | ( 100) |
| SUPPORTING FACILITIES | | | | 420 |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 40) |
| DEMOLITION | SF | 58,000 | 4 | ( 230) |
| COMMUNICATIONS SUPPORT | LS | | | ( 50) |
| SUBTOTAL | | | | 2,728 |
| CONTINGENCY (5%) | | | | 136 |
| TOTAL CONTRACT COST | | | | 2,864 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 172 |
| TOTAL REQUEST | | | | 3,036 |
| TOTAL REQUEST (ROUNDED) | | | | 3,000 |

10. Description of Proposed Construction: Concrete foundation and floor, concrete block and masonry veneer walls, roof system and earthen berm to match existing. Project includes 10,500 SF raised floor computer room, fire suppression, tie-in to existing building, demolition of wood building and necessary support.
Air Conditioning: 75 Tons.

11. REQUIREMENT: 100,000 SF ADEQUATE: 77,000 SF SUBSTANDARD: 50,700 SF
PROJECT: Add to and alter a logistical systems operations center. (Current Mission)
REQUIREMENT: An adequate facility is required to accommodate consolidation of vital, compatible logistics management computer systems, expanded storage and communications devices, and support functions. Timeliness of this project is critical for this operations center to assume its role as an AF Regional Processing Center in the fourth quarter of FY 1994. These expanded operations centers require space for computers, operations support areas and support equipment. Storage requirements have also increased for computer hardware, magnetic tapes, disks and peripherals as transitions are made to emerging technologies and more efficient operational concepts. Information systems process over 200 different data systems covering all materials managed, stored and used at Robins Air Force Base.
CURRENT SITUATION: Existing floor space is inadequate for current and planned computer systems and their required support areas. The growth in computer systems has exceeded present cooling and electrical capacities. Some computer systems remain in a substandard facility, forcing management to split their operations. Space required to achieve efficiencies dictated by various Defense Management Review Decisions (DMRD) and Air

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER | UHHZ903000 |

Force program actions is not available. Manpower reductions, predicated upon the availability of additional computer space, have already been implemented. Completion of this project will allow demolition of one 58,000 SF WWII vintage wood building.

IMPACT IF NOT PROVIDED: This Air Logistics Center's mission will be critically impaired if vital systems cannot function properly and be consolidated as mandated in DMRDs 924, 925 and 931, all directing consolidation/merging of ADP operations. Predicted efficiencies in energy and manpower will not be realized. Material deliveries and depot maintenance functions, dependent upon ADP products, will be delayed.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, an addition to the present facility was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER LOGISTICAL SYSTEMS OPERATIONS CENTER | UHH2903000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 20 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 25 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | ROBINS |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 180 |
| (b) All Other Design Costs | 70 |
| (c) Total | 250 |
| (d) Contract | 204 |
| (e) In-house | 46 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 721-312 | UHHZ933001 | 4,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 57,200 | | 3,176 |
| ADDITION | SF | 6,700 | 67 | ( 449) |
| ALTERATION | SF | 50,500 | 54 | (2,727) |
| SUPPORTING FACILITIES | | | | 530 |
| UTILITIES | LS | | | ( 290) |
| PAVEMENTS | LS | | | ( 85) |
| SITE IMPROVEMENTS | LS | | | ( 110) |
| COMMUNICATIONS SUPPORT | LS | | | ( 45) |
| SUBTOTAL | | | | 3,706 |
| CONTINGENCY (10%) | | | | 371 |
| TOTAL CONTRACT COST | | | | 4,077 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 245 |
| TOTAL REQUEST | | | | 4,322 |
| TOTAL REQUEST (ROUNDED) | | | | 4,300 |

10. Description of Proposed Construction: Alter interior partitioning to provide room-bath-room modules, exterior entrances and balconies; extend roofline and upgrade exterior; install cable TV system; upgrade laundry rooms, HVAC and utility systems, provide insulation and necessary support.

11. REQUIREMENT: 1,526 PN ADEQUATE: 960 PN SUBSTANDARD: 272 PN

PROJECT: Add to and alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs which these people must perform.

CURRENT SITUATION: The buildings were constructed in 1960 when standards of construction for bachelor quarters were considerably lower. Common latrines, inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems, and lack of privacy are major deficiencies of these facilities. This is the third phase of a three phase effort to provide adequate quarters for enlisted personnel at this base.

IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of enlisted personnel assigned to this base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". While it is recognized that the initial cost of renovating these facilities exceeds 70 percent of the replacement cost, a life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | UHHZ933001 |

(status quo, renovation, new construction, and leasing). This analysis indicates the renovation alternative is the most economical over the life of the facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | UHH2933001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 15 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 25 |
| (d) | Date Design Complete | 93 SEP 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | YES |
| (b) | Where Design Was Most Recently Used - | ROBINS |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 155 |
| (b) | All Other Design Costs | 110 |
| (c) | Total | 265 |
| (d) | Contract | 178 |
| (e) | In-house | 87 |
| (4) | Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | JSTARS ADD TO AND ALTER UTILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.47.70 TIARA | 826-123 | UHH2943030 | 3,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| JSTARS ADD TO AND ALTER UTILITIES | | | | 2,662 |
| INDUSTRIAL WASTEWATER SYSTEM | LF | 20,000 | 39 | ( 780) |
| SANITARY SEWER SYSTEM | LF | 20,000 | 39 | ( 780) |
| CHILLED WATER PLANT BUILDING | SF | 2,250 | 88 | ( 198) |
| CHILLED WATER PLANT AND DISTRIBUTION | TN | 800 | 1,130 | ( 904) |
| SUPPORTING FACILITIES | | | | 490 |
| LIFT STATIONS, HOLDING TANKS, CONTROLS | LS | | | ( 245) |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 70) |
| SPECIAL FOUNDATIONS AND PILINGS | LS | | | ( 155) |
| SUBTOTAL | | | | 3,152 |
| CONTINGENCY (5%) | | | | 158 |
| TOTAL CONTRACT COST | | | | 3,310 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 199 |
| TOTAL REQUEST | | | | 3,509 |
| TOTAL REQUEST (ROUNDED) | | | | 3,500 |

10. Description of Proposed Construction: Construct an industrial waste collection system and add to and alter an existing sanitary sewer system to include lift stations, holding tanks and controls. Construct a central chilled water plant. Includes pavements, site improvements, system O&M manuals and all required support.

11. REQUIREMENT: As required.

PROJECT: Upgrade waste water collection system and install a central chilled water plant. (New Mission)

REQUIREMENT: An environmentally sound and adequately sized wastewater and industrial waste collection system and a central chilled water plant are required to support the beddown of all new Joint Surveillance Target Attack Radar System (STARS) facilities. The Joint STARS beddown area borders on wetlands, so the wastewater and industrial waste collection system must conform to the most strict Clean Water Act implementing guidance. To most efficiently meet the cooling demands of the new Joint STARS facilities, a central chiller plant is required.

CURRENT SITUATION: The existing wastewater and industrial waste collection system is over 30 years old and cannot reliably support the added demand associated with the Joint STARS beddown. Also, the existing lines lead to an off-base treatment facility that will be taken out of service after 1994. The new lines will lead to base treatment facilities. There is no central chilled water plant in the Joint STARS beddown area. Each new facility must be connected to a central cooling source or have its own individual chiller system. Economy of scale and energy efficiency can be optimized by constructing a central plant.

IMPACT IF NOT PROVIDED: Adequate waste water and industrial waste collection systems will not be available to support new Joint STARS

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ROBINS AIR FORCE BASE, GEORGIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| JSTARS ADD TO AND ALTER UTILITIES | | UHHZ943030 |

facilities. Without a central chiller plant, individual facilities would have to include stand-alone chillers, which would entail greater utility costs and maintenance effort.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." This project is critical to the beddown of Joint Stars, a joint Army/Air Force system for real time detection, tracking, and attack of moving and stationary targets. The system consists of an airborne segment onboard E-8C configured aircraft and a mobile ground communication segment. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JSTARS ADD TO AND ALTER UTILITIES | UHHZ943030 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 DEC 01 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 16 |
| (d) Date Design Complete | | 93 AUG 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | |
| (b) Where Design Was Most Recently Used - | | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 216 |
| (b) All Other Design Costs | | 162 |
| (c) Total | | 378 |
| (d) Contract | | 295 |
| (e) In-house | | 83 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-155 | UHHZ943007 | 10,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT | | | | |
| AND DISPOSAL PLANTS | LS | | | 7,450 |
| UPGRADE INDUSTRIAL WASTE TREAT PLANT | LS | | | ( 6,800) |
| UPGRADE SANITARY SEWAGE TREAT PLANT | LS | | | ( 650) |
| SUPPORTING FACILITIES | | | | 1,750 |
| UTILITIES | LS | | | ( 850) |
| PAVEMENTS | LS | | | ( 150) |
| SITE IMPROVEMENTS/DEMOLITION | LS | | | ( 500) |
| O&M MANUAL, TRAINING AND START-UP | LS | | | ( 250) |
| SUBTOTAL | | | | 9,200 |
| CONTINGENCY (10%) | | | | 920 |
| TOTAL CONTRACT COST | | | | 10,120 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 607 |
| TOTAL REQUEST | | | | 10,727 |
| TOTAL REQUEST (ROUNDED) | | | | 10,700 |

10. Description of Proposed Construction: Upgrade metal precipitation and removal process, including upgrade/installation of mixer, clarifier, oil separator, activated sludge and metal removal systems, final filtration and instrumentation; install digester and sludge drying beds at sewage plant. Includes necessary support construction and 180 day start-up operations and certification by contractor.

11. REQUIREMENT: As required.

PROJECT: Upgrade an industrial wastewater treatment plant (IWTP) and a sewage treatment plant (STP). (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Adequate industrial wastewater and sewage treatment plants are required to remove pollutants from industrial and sanitary wastewater. Industrial wastewater pollutants are generated by depot maintenance activities such as aircraft overhaul, metal plating, painting and paint stripping. The treatment process must produce an effluent which meets future federal and state water and air quality standards. To further control in-stream toxicity levels, wastewater discharge limits governing Robins Air Force Base will be reduced even further when the State of Georgia renews the base discharge permit in December 1993. State representatives have indicated such during recent negotiations and public hearings.

CURRENT SITUATION: The State of Georgia, which is mandated by federal law under the Clean Water Act, has issued a permit to Robins Air Force Base for operation of industrial and sanitary wastewater treatment plants. The permit requires the plants to meet very stringent discharge standards. This upgrade is required to ensure that the plants can meet the current discharge limits and the lower limits that will be imposed when the discharge permit is renewed in December 1993. The treatment process

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS | UHHZ943007 |

currently includes two IWTPs and one STP. The two IWTPs must be upgraded and combined into one plant to ensure effective state-of-the-art removal of metals and other pollutants. The effluent from one IWTP currently goes through the STP for final treatment. This action must be terminated as pollutants in the IWTP effluent contaminate STP sludge, making it a hazardous waste. IWTP upgrade must provide the final treatment now provided by the STP. In addition, the STP must be upgraded with tertiary treatment to allow it to meet lowered discharge limits for Biological Oxygen Demand.

IMPACT IF NOT PROVIDED: Robins Air Force Base will not be able to treat wastewater to meet lower standards imposed by its permit. Penalties could be imposed or the base could be required to discontinue industrial operations, thereby adversely impacting its mission.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or Air Force Manual 86-2, "Standard Facility Requirements". Scope of project was developed through engineering analysis of processes required and projected wastewater flow. A preliminary analysis of all known alternative options was done. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exemption was prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT AND DISPOSAL PLANTS | UHHZ943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 20 |
| (d) Date Design Complete | 93 JUN 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 125 |
| (b) All Other Design Costs | 370 |
| (c) Total | 495 |
| (d) Contract | 297 |
| (e) In-house | 198 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| HICKAM AIR FORCE BASE, HAWAII | PACIFIC AIR FORCES | 1.34 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 687 | 2678 | 1412 | 151 | 284 | 28 | 27 | 62 | 31 | 5,360 |
| b. End FY 1998 | 654 | 2506 | 1413 | 151 | 284 | 28 | 27 | 62 | 31 | 5,156 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 7,786) | |
| b. Inventory Total As Of: (30 SEP 92) | 487,173 |
| c. Authorization Not Yet In Inventory: | 18,520 |
| d. Authorization Requested In This Program: | 10,250 |
| e. Authorization Included In Following Program: (FY 1995) | 9,550 |
| f. Planned In Next Four Program Years: | 37,600 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 563,093 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 131-132 | MILSTAR COMMUNICATIONS GROUND TERMINAL | 1,600 SF | 2,200 | MAR 92 | DEC 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 2,100 | JUL 92 | JUL 93 |
| 721-312 | DORMITORY | 192 PN | 5,950 | JUL 92 | OCT 93 |
| | | TOTAL: | 10,250 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 46 EA | 6,800 |
| 721-315 | ALTER DORMITORY | 62 PN | 2,750 |
| | | TOTAL: | 9,550 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRFIELD APRON, PH 1 | 62,000 SY | 7,000 |
| 442-257 | FLAMMABLE STORAGE WAREHOUSE | 11,500 SF | 1,200 |
| 610-284 | RENOVATE HQ PACAF COMPLEX PHIV | 52,000 SF | 2,400 |
| 610-284 | RENOV HQ PACAF COMPLEX PH V | 47,000 SF | 3,000 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED DORMITORY | 352 PN | 5,000 |

10. Mission or Major Functions: Headquarters Pacific Air Forces; an air base wing (C-135 aircraft); an Air Force Intelligence Command intelligence wing; an Air Mobility Command airlift support group; and Air National Guard fighter squadron (F-15 and F-5 aircraft) and composite group (C-130 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 6,800 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HICKAM AIR FORCE BASE, HAWAII | MILSTAR COMMUNICATIONS GROUND TERMINAL |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.36.01 | 131-132 | KNMD933022 | 2,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MILSTAR GROUND COMMUNICATIONS TERMINAL | SF | 1,600 | 560 | 896 |
| SUPPORTING FACILITIES | | | | 1,060 |
| UTILITIES | LS | | | ( 350) |
| PAVEMENTS | SY | 147 | 68 | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 330) |
| HEMP SHIELDING | SF | 5,200 | 65 | ( 340) |
| AUXILIARY GENERATORS | KW | 120 | 250 | ( 30) |
| SUBTOTAL | | | | 1,956 |
| CONTINGENCY (5%) | | | | 98 |
| TOTAL CONTRACT COST | | | | 2,054 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 134 |
| TOTAL REQUEST | | | | 2,188 |
| TOTAL REQUEST (ROUNDED) | | | | 2,200 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (4,650) |

10. Description of Proposed Construction: Reinforced concrete walls, concrete floor slab, foundation and roof system. Includes HEMP shielding, acoustic wall and ceiling panels, standby generators with auto transfer equipment, fire protection system, and utilities.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 1,600 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a Milstar Ground Communications Terminal facility. (New Mission).
REQUIREMENT: A facility is required to house a Milstar Ground Communications Terminal. The Milstar system, via satellites, provides the National Command Authority (NCA) with the only worldwide, secure, two-way, anti-jam, survivable, low probability of detection/interception voice and data communication capability.
CURRENT SITUATION: No facilities exist to support the ground terminal segment of the Milstar system.
IMPACT IF NOT PROVIDED: Without this project, critical connectivity between NORAD/Space Command and other high priority users, including the NCA, would be lost during crises denying the ability to command and control military forces through all levels of conflict. The Milstar terminal equipment for this site is scheduled for delivery in 1995.
ADDITIONAL: The requirement for HEMP hardening is approved. There are no criteria for this project in Air Force Manual 86-2, "Standard Facility Requirements," or in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HICKAM AIR FORCE BASE, HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MILSTAR COMMUNICATIONS GROUND TERMINAL | KNMD933022 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAR 19 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 132 |
| (b) All Other Design Costs | 66 |
| (c) Total | 198 |
| (d) Contract | |
| (e) In-house | 198 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| MILSTAR TERMINAL EQUIPMENT | 3080 | FY 95 | 4200 |
| EHF/UHF ANTENNA SUPPORT SHELTER | 3080 | FY 95 | 250 |
| SOLID STATE UPS SYSTEM | 3080 | FY 95 | 200 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HICKAM AIR FORCE BASE, HAWAII | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56P | 411-135 | KNMD943012 | 2,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,405 |
| REPLACE UNDERGROUND FUEL STORAGE TANKS | EA | 11 | 115,000 | (1,265) |
| REMOVE UNDERGROUND FUEL STORAGE TANKS | EA | 4 | 35,000 | ( 140) |
| SUPPORTING FACILITIES | | | | 470 |
| CONTAINMENT DIKES | EA | 11 | 5,909 | ( 65) |
| CATHODIC PROTECTION/DETECTION DEVICES | EA | 11 | 7,273 | ( 80) |
| EXCAVATION/BACKFILL | EA | 11 | 25,000 | ( 275) |
| SOIL TESTING/DISPOSAL | EA | 11 | 4,545 | ( 50) |
| SUBTOTAL | | | | 1,875 |
| CONTINGENCY (5%) | | | | 94 |
| TOTAL CONTRACT COST | | | | 1,969 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 128 |
| TOTAL REQUEST | | | | 2,097 |
| TOTAL REQUEST (ROUNDED) | | | | 2,100 |

10. Description of Proposed Construction: Replace, upgrade or remove 15 Underground Storage Tanks (UST). Includes removal, installation of new tanks with release detection, piping, encasement or containment dikes, spill and overfill prevention devices, cathodic protection, soil testing/disposal, site work, utilities and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Replaces and upgrades fifteen (15) underground fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Upgrade of all USTs regulated by 40 CFR 280 to new construction standards is required. The Environmental Protection Agency (EPA) has set standards that require all regulated USTs to have leak detection, corrosion protection, and spill/overflow prevention systems by December 1998. If USTs are replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible. However, existing underground petroleum products storage tanks which are in good condition may be upgraded in place to bring them into compliance with applicable UST standards. This project is first phase to bring Hickam AFB underground tanks into compliance and will be followed by three more phased projects to complete the remaining tanks.

CURRENT SITUATION: Underground fuel storage tanks are aging and do not meet EPA requirements. This project is the first phase and addresses 15 of 41 USTS requiring action. Many are over 30 years old and are steel tanks which are unlined/unprotected. The EPA's cause-of-release study indicates unprotected steel tanks over 15 years of age represent the highest potential leakage threat. While the tanks have been tested for leaks, they do not have the necessary corrosion protection, spill/overfill

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| HICKAM AIR FORCE BASE, HAWAII | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS | KNMD943012 |

prevention and leak detection devices necessary to protect the environment.

IMPACT IF NOT PROVIDED: Failure to take corrective action will result in underground storage tanks which do not meet regulatory requirements. After 22 December 1998, the US Air Force would be open to EPA Notice of Violations, monetary penalties and possible litigation could force compliance and remediation. The potential for soil/groundwater contamination would remain.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction, and leasing) was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HICKAM AIR FORCE BASE, HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | KNMD943012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 02 |
| (d) Date Design Complete | 93 JUL 19 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 110 |
| (b) All Other Design Costs | 116 |
| (c) Total | 226 |
| (d) Contract | 140 |
| (e) In-house | 86 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HICKAM AIR FORCE BASE, HAWAII | DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96 | 721-312 | KNMD933021R1 | 5,950 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DORMITORY (120 PN) | SF | 24,000 | 165 | 3,960 |
| SUPPORTING FACILITIES | | | | 1,355 |
| UTILITIES | LS | | | ( 450) |
| SITE IMPROVEMENTS | LS | | | ( 180) |
| PAVEMENTS | LS | | | ( 300) |
| SOLAR APPLICATIONS | LS | | | ( 165) |
| SPECIAL FOUNDATIONS | LS | | | ( 185) |
| COMMUNICATIONS SUPPORT | LS | | | ( 75) |
| SUBTOTAL | | | | 5,315 |
| CONTINGENCY (5%) | | | | 266 |
| TOTAL CONTRACT COST | | | | 5,581 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 363 |
| TOTAL REQUEST | | | | 5,944 |
| TOTAL REQUEST (ROUNDED) | | | | 5,950 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls, roof system, fire protection, utilities and other necessary support. Includes room-bath-room modules, laundries, storage and lounge areas, support space, landscaping, and handicapped access to first floor common areas.
Air Conditioning: 132 Tons. Grade Mix: 120 E1-E4.

11. REQUIREMENT: 1,471 PN ADEQUATE: 51 PN SUBSTANDARD: 993 PN
PROJECT: Construct dormitory. (Current Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There is a shortage of dormitories to accommodate the on-base unaccompanied enlisted housing requirement, thus personnel are forced to compete for housing off-base in an already limited housing market. Occupancy rate for existing dormitories is 96 percent, with balance of assigned enlisted personnel (over 400 persons) forced to find housing off-base. To compound this undesirable situation, the off-base housing costs are among the most expensive in the United States.
IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| HICKAM AIR FORCE BASE, HAWAII | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| DORMITORY | | KNMD933021R1 |

alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HICKAM AIR FORCE BASE, HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DORMITORY | KNMD933021R1 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUL 13 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 AUG 05 |
| (d) Date Design Complete | | 93 OCT 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | YES |
| (b) Where Design Was Most Recently Used - | | HICKAM |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 270 |
| (b) All Other Design Costs | | 205 |
| (c) Total | | 475 |
| (d) Contract | | 50 |
| (e) In-house | | 425 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION<br>KAENA POINT SATELLITE TRACKING SITE, HAWAII | 4. COMMAND<br>PACIFIC AIR FORCES | 5. AREA CONST COST INDEX<br>1.34 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 153) | |
| b. Inventory Total As Of: (30 SEP 92) | 8,151 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 7,350 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 15,501 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 811-145 | POWER PLANT | 1 SF | 7,350 | MAY 92 | DEC 93 |
| | | TOTAL: | 7,350 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: An Air Force Space Command down range missile and satellite tracking station supporting the Western Space and Missile Center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KAENA POINT SATELLITE TRACKING SITE, HAWAII | POWER PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.59.96 | 811-145 | LXHY943024 | 7,350 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| POWER PLANT | LS | | | 5,322 |
| NEW POWER PLANT BLDG | SF | 8,500 | 180 | (1,530) |
| NEW GENERATORS | KW | 2,400 | 830 | (1,992) |
| PORTABLE LOAD BANK | EA | 1 | 250,000 | ( 250) |
| HIGH VOLTAGE SWITCHGEAR | LS | | | (1,550) |
| SUPPORTING FACILITIES | | | | 1,225 |
| UTILITIES | LS | | | ( 560) |
| DEMOLITION OF EXIST GENERATORS | LS | | | ( 465) |
| SITE WORK | LS | | | ( 150) |
| PAVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 6,547 |
| CONTINGENCY (5%) | | | | 327 |
| TOTAL CONTRACT COST | | | | 6,874 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 447 |
| TOTAL REQUEST | | | | 7,321 |
| TOTAL REQUEST (ROUNDED) | | | | 7,350 |

10. Description of Proposed Construction: Construct new power plant, install 12 KV switchgear to interface with existing system. Provide new load bank for testing and maintenance. Install new aboveground fuel tanks and lines, underground feeders, fire alarm system, and comm lines. Remove old generators, convert exist power plant to storage and maint use.
Air Conditioning: 6 Tons.

11. REQUIREMENT: 2,400 KW ADEQUATE: 0 SUBSTANDARD: 2,000 KW
PROJECT: Construct power plant. (Current Mission)
REQUIREMENT: Reliable, emergency backup power, for the Hawaii tracking station. This station is the primary satellite communications control station in the Pacific. It must remain operational at all times to communicate to the myriad of satellite systems in geosynchronous and polar orbits. Backup power is required to limit downtime to five and one half minutes per year (99.999 reliability) for mission critical utility loads. New weathertight facility, modern reliable generators, and associated equipment, such as a load bank to test the generators under load, is needed to provide the required standard of reliability. An adequately sized maintenance area is required for major overhauls. Space in the existing power plant, to be available once the new power plant comes on line, is needed to house storage and maintenance functions.
CURRENT SITUATION: The satellite tracking station is on Kaena Point, the most westward location on the island of Oahu. It is served by two unreliable commercial feeders. In June of 1991, Kaena Point experienced a brown out and lost commercial power for 36 hours. This site was the last customer brought on line by the commercial power company. The existing emergency power plant (built in 1966 using 1958 vintage generators) is used during inclement weather and for emergency backup. Due to obsolete,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KAENA POINT SATELLITE TRACKING SITE, HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POWER PLANT | LXHY943024 |

manually operated equipment, the site has had 56 total station outages in the past five years with 41 operationally impairing disturbances. The primary electrical distribution system is susceptible to faults which may result in extensive power outages. Existing primary feeders/generators have had several power anomalies, interrupting power to mission critical equipment.

IMPACT IF NOT PROVIDED: Fluctuations, power outages, and unreliable backup power to critical satellite control equipment will continue to interrupt satellite communications through this critical site in the satellite control network. These interruptions will continue to jeopardize these nonrecoverable, nationally critical, data and communications systems. Control of satellite systems - such as Global Positioning System (GPS), Defense Meteorological Satellite Program (DMSP), and classified mission satellites - is critical to tactical and strategic defense support for all of DOD.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KAENA POINT SATELLITE TRACKING SITE, HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POWER PLANT | LXHY943024 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 04 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 21 |
| (d) Date Design Complete | 93 DEC 16 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 450 |
| (b) All Other Design Costs | 230 |
| (c) Total | 680 |
| (d) Contract | 565 |
| (e) In-house | 115 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| SCOTT AIR FORCE BASE, ILLINOIS | AIR MOBILITY COMMAND | 1.05 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 2445 | 4450 | 2992 | 197 | 202 | 32 | 130 | 88 | 27 | 10,563 |
| b. End FY 1998 | 2276 | 4238 | 2816 | 197 | 202 | 32 | 130 | 88 | 27 | 10,006 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,282) | |
| b. Inventory Total As Of: (30 SEP 92) | 308,611 |
| c. Authorization Not Yet In Inventory: | 32,710 |
| d. Authorization Requested In This Program: | 7,450 |
| e. Authorization Included In Following Program: (FY 1995) | 11,094 |
| f. Planned In Next Four Program Years: | 16,850 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 376,715 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 317-311 | INTEROPERABILITY TEST AND TRAINING FACILITY | 24,300 SF | 5,000 | AUG 92 | APR 93 |
| 422-253 | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | 4,900 SF | 2,450 | SEP 92 | DEC 93 |
| | | TOTAL: | 7,450 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 2,550 |
| 740-884 | CHILD DEVELOPMENT CENTER | 22,500 SF | 3,500 |
| 811-147 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LS | 5,044 |
| | | TOTAL: | 11,094 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 130-142 | FIRE/CRASH RESCUE STATION | 11,000 SF | 1,750 |
| 141-753 | SQUADRON OPERATIONS FACILITY | 12,300 SF | 1,950 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED HSG | 225 PN | 3,800 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED HSG | 144 PN | 2,950 |
| 822-265 | REPAIR STEAM HEATING MAINS | 5,000 LF | 3,500 |

10. Mission or Major Functions: Headquarters United States Transportation Command; Headquarters Air Mobility Command; Tanker/Airlift Control Center; Air Force Communications Command; Air Weather Service; USAF Environmental Technical Applications Center; an airlift wing which performs airlift aeromedical airlift, and training missions (C-9, C-12 and C-21 aircraft); an Air Force Reserve C-9 associate aeromedical airlift group; and a major USAF medical center. Also, a joint military/civil use airfield.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SCOTT AIR FORCE BASE, ILLINOIS | INTEROPERABILITY TEST AND TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 317-311 | VDYD933008 | 5,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| INTEROPERABILITY TEST AND TRAINING FACILITY | SF | 24,300 | 145 | 3,524 |
| SUPPORTING FACILITIES | | | | 955 |
| COMMUNICATION SUPPORT | LS | | | ( 85) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 135) |
| UTILITIES | LS | | | ( 575) |
| DEMOLITION | SF | 22,100 | 5 | ( 110) |
| SUBTOTAL | | | | 4,479 |
| CONTINGENCY (5%) | | | | 224 |
| TOTAL CONTRACT COST | | | | 4,703 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 282 |
| TOTAL REQUEST | | | | 4,985 |
| TOTAL REQUEST (ROUNDED) | | | | 5,000 |

10. Description of Proposed Construction: Two-story structural steel and masonry building, concrete foundations and pitched or built-up roof. Project includes computer floor in equipment test areas, fixtures, provisions for specialized electronic testing, landscaping, loading dock, sidewalks, paving, and demolition of seven facilities totaling 22,100 square feet.
Air Conditioning: 35 Tons.

11. REQUIREMENT: 24,300 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a communications and computer system interoperability testing and training facility. (Current Mission)
REQUIREMENT: The Air Force needs a facility to combine and house the Technology Integration Center communications-computer system testing and training functions. The Center performs specialized tests to determine whether new equipment is compatible and whether existing equipment continually meets system performance requirements. The testing/training facility must have space for training technicians, space to store high-value test equipment, and safe storage for encryption equipment. It must have a computer-grade grounding, electrical power, and environmental control systems. It also needs to have features such as a loading dock and a raised computer floor so technicians can efficiently and safely set up, test, and remove the equipment.
CURRENT SITUATION: The Center tests equipment already in the DoD inventory and new commercial and Military Specification equipment bought from multiple vendors. Some of the testing supports the new systems being fielded through the Corporate Information Management initiative. The Center performs off-line tests to resolve problems on fielded equipment, tests to confirm the need for equipment upgrades, and performs validation

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INTEROPERABILITY TEST AND TRAINING FACILITY | VDYD933008 |

tests before publishing new Air Force standards. At any time, over $9 million worth of equipment is undergoing tests. The testing and training functions and their associated professional staffs are housed in separate facilities located approximately three miles apart. Testing is conducted in a wood-framed structure built in 1941. There is no other suitable space available on base. The testing functions overtax the building's obsolete utility systems which fail and require repairs about twice a week. Utility system failures result in downtime and lost production valued at $112,000 annually. Technicians frequently must work in the asbestos-laden attic to reconfigure wiring during equipment setup and removal. Aisle space is inadequate and in violation of the Life Safety Code.

IMPACT IF NOT PROVIDED: Cost reductions cannot be realized and inefficiencies will continue. A cost comparison analysis determined that it is not economical to renovate the existing facility to eliminate current deficiencies for its continued use as a test facility. Engineering and testing will be curtailed. New systems will be fielded untested or operating costs will significantly increase if testing must be done in the field. Testing on fielded systems will result in shutdown of operational missions during test periods. The base must continue to commit scarce operations and maintenance resources on the existing testing facility and the seven worn-out facilities.

ADDITIONAL: There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INTEROPERABILITY TEST AND TRAINING FACILITY | VDYD933008 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 11 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 01 |
| (d) | Date Design Complete | 93 APR 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 306 |
| (b) | All Other Design Costs | 153 |
| (c) | Total | 459 |
| (d) | Contract | 306 |
| (e) | In-house | 153 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SCOTT AIR FORCE BASE, ILLINOIS | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 422-253 | VDYD923004 | 2,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | LS | | | 1,538 |
| MULTICUBICLE MAGAZINE STORAGE | SF | 4,850 | 150 | ( 728) |
| MUNITIONS HOLDING AREA | SF | 400 | 150 | ( 60) |
| MUNITIONS MAINT ADMINISTRATION | SF | 1,000 | 100 | ( 100) |
| LAND, FEE PURCHASE | AC | 22 | 19,090 | ( 420) |
| LAND, EASEMENT | AC | 230 | 1,000 | ( 230) |
| SUPPORTING FACILITIES | | | | 480 |
| UTILITIES | LS | | | ( 380) |
| PAVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 2,018 |
| CONTINGENCY (5%) | | | | 101 |
| TOTAL CONTRACT COST | | | | 2,119 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 127 |
| TOTAL REQUEST | | | | 2,246 |
| TOTAL REQUEST (ROUNDED) | | | | 2,450 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Area includes 14 munitions storage bays, fire sprinkler system and a munitions inspection and maintenance facility. Also included are roads, parking fencing, security lighting and alarms and necessary support. Land purchase includes 22 acres and easements include 230 acres.

11. REQUIREMENT: 6,250 SF ADEQUATE: 0 SUBSTANDARD: 410 SF

PROJECT: Construct a munitions storage facility and land acquisition. (Current Mission)

REQUIREMENT: Adequate munitions storage and inspection area is required to support training, operational and mobility requirements. Storage magazines must be sized to accommodate the 463L aircraft pallet to meet mobility requirements. Space must be provided to support the security police air base ground defense unit, the explosives ordnance disposal team, HQ AMC combat controllers and mobility missions and training needs of various base organizations. Location should conform to quantity distance criteria for minimum blast and fragmentation distances from inhabited buildings and public roadways. Land purchase consisting of 22 acres is required for construction of munitions storage, munitions maintenance space, and parking area. Easements consisting of 230 acres is required to provide the required buffer zone specified in quantity distance criteria for munitions storage facilities.

CURRENT SITUATION: The existing munitions storage/training facility is too small, providing less than ten percent of space required to support base requirements. Lack of space requires munitions to be stored at Little Rock AFB and an Army Depot 50 miles away. During recent DESERT STORM Operations, the 375 CSG Air Base Ground Defense Unit had to deploy without their munitions because munitions were stored at Little Rock. The

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | VDYD923004 |

existing location does not meet quantity distance criteria for minimum blast and fragmentation distances to inhabited buildings (1,250 feet; nearest building is 250 feet) and public traffic routes (750 feet; nearest road is 100 feet). There is no available space on base on which to construct this facility. Therefore, land must be purchased as part of this project.

IMPACT IF NOT PROVIDED: Mission requirements for training, mobility and operations will be severely impacted by depending on other installations, distant from the base, for munitions storage.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | VDYD923004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 93 AUG 16 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 123 |
| (b) All Other Design Costs | |
| (c) Total | 123 |
| (d) Contract | 123 |
| (e) In-house | |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| MCCONNELL AIR FORCE BASE, KANSAS | AIR COMBAT COMMAND | 0.92 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 375 | 2687 | 360 | | 88 | | | | | 3,510 |
| b. End FY 1998 | 343 | 2357 | 351 | | 88 | | | | | 3,139 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,103) | |
| b. Inventory Total As Of: (30 SEP 92) | 273,073 |
| c. Authorization Not Yet In Inventory: | 19,910 |
| d. Authorization Requested In This Program: | 1,900 |
| e. Authorization Included In Following Program: (FY 1995) | 11,100 |
| f. Planned In Next Four Program Years: | 28,100 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 334,083 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 149-962 | CONTROL TOWER CAB | 1 EA | 900 | SEP 92 | APR 93 |
| 921-167 | LAND RESTRICTIVE EASEMENT ACQUISITION | 149 AC | 1,000 | SEP 92 | MAY 93 |
| | | TOTAL: | 1,900 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 124-000 | UPGRADE POL DIKES AND BASINS | LS | 1,050 |
| 610-000 | BASE ENGINEERING COMPLEX | 46,250 SF | 4,650 |
| 610-121 | TRANSPORTATION COMPLEX | 15,600 SF | 2,550 |
| 831-157 | GLYCOL RECOVERY SYSTEM | 1 EA | 1,150 |
| 871-183 | STORM DRAINAGE FACILITIES | LS | 1,700 |
| | | TOTAL: | 11,100 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 111-111 | UPGRADE RUNWAY | LS | 3,100 |
| 121-000 | AIRCRAFT DISPENSING | 4,850 SF | 1,600 |
| 610-128 | MILITARY PERSONNEL SUPPORT CENTER | 48,250 SF | 6,400 |
| 690-000 | PROCUREMENT FACILITY | 8,000 SF | 1,400 |
| 740-884 | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 27,300 SF | 2,600 |

10. Mission or Major Functions: A bomb wing which includes one B-1 squadron; an Air Mobility Command air refueling squadron (KC-135 aircraft); and an Air National Guard fighter group (F-16 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 2,550 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | AIR COMBAT COMMAND | 0.86 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 907 | 4789 | 1092 | | 509 | | 1 | 6 | | 7,304 |
| b. End FY 1998 | 822 | 4507 | 1265 | | 509 | | 1 | 6 | | 7,110 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 22,382) | |
| b. Inventory Total As Of: (30 SEP 92) | 205,446 |
| c. Authorization Not Yet In Inventory: | 43,340 |
| d. Authorization Requested In This Program: | 2,560 |
| e. Authorization Included In Following Program: (FY 1995) | 13,500 |
| f. Planned In Next Four Program Years: | 36,650 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 301,496 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-000 | UPGRADE BULK STORAGE BASINS | | LS | 1,600 | AUG 92 | AUG 93 |
| 872-247 | WEAPONS STORAGE AREA SECURITY | | LS | 960 | JUL 92 | JUN 93 |
| | | TOTAL: | | 2,560 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 121-122 | ADD TO AND ALTER APRON/HYDRANT FUELING SYSTEM, PHASE II | | LS | 12,000 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,500 |
| | | TOTAL: | | 13,500 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | | LS | 12,000 |
| 121-122 | HYDRANT FUELING SYSTEM | | LS | 12,000 |
| 171-712 | ADD TO AND ALTER TARGET INTELLIGENCE TRAINING | 14,000 | SF | 900 |
| 442-758 | AIRCRAFT PARTS STORE | 75,000 | SF | 6,000 |
| 740-674 | PHYSICAL FITNESS CENTER | 18,200 | SF | 2,450 |

10. Mission or Major Functions: Headquarters Eighth Air Force; a flying wing which includes two bombardment squadrons (B-52 aircraft) and one air refueling squadron (KC-135 aircraft); Air Mobility Command operations group (two air refueling squadrons of KC-10 aircraft) and airlift detachment (C-21 aircraft); and an Air Force Reserve fighter wing (A-10 and OA-10 aircraft) and KC-10 associate air refueling group.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 5,800 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | UPGRADE BULK STORAGE BASINS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.56 | 124-000 | AWUB910027 | 1,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE BULK STORAGE BASINS | SY | 38,000 | 20 | 760 |
| SUPPORTING FACILITIES | | | | 600 |
| UTILITIES | LS | | | ( 85) |
| SITE IMPROVEMENTS | LS | | | ( 275) |
| PAVEMENTS | SY | 10,000 | 20 | ( 200) |
| DEMOLISH PAVEMENT | SY | 38,100 | 1 | ( 40) |
| SUBTOTAL | | | | 1,360 |
| CONTINGENCY (10%) | | | | 136 |
| TOTAL CONTRACT COST | | | | 1,496 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 90 |
| TOTAL REQUEST | | | | 1,586 |
| TOTAL REQUEST (ROUNDED) | | | | 1,600 |

10. Description of Proposed Construction: Install adequate drainage system to drain rainwater from bermed basin area. Upgrade existing containment berms and install an impervious concrete liner over berms and basins.

11. REQUIREMENT: As required.
PROJECT: Upgrade bulk storage basins. (Current Mission)
REQUIREMENT: This is a Level 1 environmental compliance requirement. In accordance with Federal Law (40 CFR 112.7), all bulk fuel storage tanks require an impervious liner to protect soil and water from contamination due to tank leakage.
CURRENT SITUATION: The base is in violation of Federal Law requiring impervious liners for bulk fuel storage areas. The current spill containment berms/basins have deteriorated and do not provide an effective impervious liner to stop a jet fuel spill from soaking into the soil. The current rainwater drainage system is also totally inadequate as it fails to prevent contamination of storm drainage systems.
IMPACT IF NOT PROVIDED: The base will remain in violation of Federal Law and may begin receiving Notices of Violation, fines, and significant adverse publicity for failure to protect the health and welfare of people and the environment. Accidental fuel spill and contamination of soil and water (surface and ground) would result in a threat to human health and extremely costly cleanup measures. Continued violation of the law could result in directed cessation of aircraft refueling activities which would eliminate further flying operations at the base. Mission execution would not be possible.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE BULK STORAGE BASINS | AWUB910027 |

this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE BULK STORAGE BASINS | AWUB910027 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 AUG 01 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 SEP 30 |
| (d) Date Design Complete | | 93 AUG 15 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | |
| (b) Where Design Was Most Recently Used - | | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 96 |
| (b) All Other Design Costs | | 54 |
| (c) Total | | 150 |
| (d) Contract | | 110 |
| (e) In-house | | 40 |
| (4) Construction Start | | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | AIR MOBILITY COMMAND | 1.05 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 1136 | 4110 | 1773 | 159 | 142 | 15 | 122 | 1156 | 164 | 8,777 |
| b. End FY 1998 | 1104 | 3995 | 1734 | 159 | 142 | 15 | 122 | 1156 | 164 | 8,591 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 7,488) | |
| b. Inventory Total As Of: (30 SEP 92) | 372,964 |
| c. Authorization Not Yet In Inventory: | 26,020 |
| d. Authorization Requested In This Program: | 17,990 |
| e. Authorization Included In Following Program: (FY 1995) | 3,810 |
| f. Planned In Next Four Program Years: | 67,540 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 488,324 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 141-782 | AIR FREIGHT TERMINAL | 38,600 SF | 4,400 | SEP 92 | SEP 93 |
| 179-511 | FIRE TRAINING FACILITY (DBOF) | LS | 1,000 | OCT 92 | OCT 93 |
| 610-000 | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | 347,500 SF | 9,940 | APR 93 | MAR 94 |
| 832-266 | UPGRADE SANITARY SEWER SYSTEMS | LS | 2,650 | SEP 92 | JUL 93 |
| | | TOTAL: | 17,990 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 740-884 | CHILD DEVELOPMENT CENTER | 23,000 SF | 3,810 |
| | | TOTAL: | 3,810 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 121-122 | REPLACE HYDRANT REFUELING SYSTEMS | LS | 9,790 |
| 218-712 | ACFT SPRT EQUIP SHOP/STORAGE | 13,900 SF | 2,450 |
| 219-944 | ADD TO AND ALTER BASE ENGINEER ADMINISTRATION | 45,800 SF | 7,600 |
| 411-135 | IMPROVE JET FUEL STORAGE | LS | 5,900 |
| 721-312 | DORMITORY | 270 PN | 7,400 |

10. Mission or Major Functions: An airlift wing which performs Presidential support & special air missions (C-9, C-12, C-20, C-137, VC-25 aircraft, & UH-1 helicopters); an airlift squadron with C-12 & C-21 aircraft; an AFRES airlift wing (C-141's); an ANG fighter wing (F-16's) and airlift squadron (C-21's & C-22's); ANG Readiness Center; HQ District of Columbia ANG; Air Force Materiel Command test wing detachment (C-135 aircraft); and a major USAF medical center. Major tenants include Army, Navy, and Marine Corps flying units.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 18,400 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | AIR FREIGHT TERMINAL (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 141-782 | AJXF923002 | 4,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIR FREIGHT TERMINAL (DBOF) | LS | | | 3,286 |
| AIR FREIGHT TERMINAL | SF | 33,800 | 83 | (2,805) |
| ADMINISTRATIVE SPACE | SF | 4,800 | 92 | ( 442) |
| AIR FREIGHT PAVED STORAGE | SY | 1,700 | 23 | ( 39) |
| SUPPORTING FACILITIES | | | | 675 |
| UTILITIES | LS | | | ( 290) |
| PAVEMENTS | LS | | | ( 290) |
| SITE IMPROVEMENTS | LS | | | ( 95) |
| SUBTOTAL | | | | 3,961 |
| CONTINGENCY (5%) | | | | 198 |
| TOTAL CONTRACT COST | | | | 4,159 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 250 |
| TOTAL REQUEST | | | | 4,409 |
| TOTAL REQUEST (ROUNDED) | | | | 4,400 |

10. Description of Proposed Construction: Reinforced concrete footings, foundation and floor slab, structural steel frame, insulated walls and roof, fire protection system, and utilities. Area includes space for covered pallet-train buildup, packing and crating, administration and necessary support.

11. REQUIREMENT: 38,600 SF ADEQUATE: 0 SUBSTANDARD: 18,700 SF

PROJECT: Construct an air freight terminal. (Current Mission)

REQUIREMENT: Adequate facilities for conveyorable and non-conveyorable cargo, pallet buildup and netting, aircraft pallet storage, special cargo processing and storage, packing and crating and freight management. Facility will be configured to accommodate modern mechanized handling equipment.

CURRENT SITUATION: Air freight operations are currently accomplished in an aircraft maintenance hangar which provides only 50 percent of the required space. Inefficiencies include lack of off-load docks, packing and crating area, outdated, inefficient material handling equipment and inadequate security for sensitive cargo. Cargo is processed to support State Department, embassy flights, foreign governments and special high visibility flights. Much of this cargo requires a secure storage area which can only be achieved by posting security police to guard the cargo until it can be processed for shipping. Aircraft pallet storage located outside offers no protection from the elements. When vacated, the space (18,700 SF) will be converted back to hangar space and thereby reduce the 64,000 SF hangar space deficiency at Andrews. Remaining hangar space deficiency will be satisfied in future MILCON program.

IMPACT IF NOT PROVIDED: Air freight operations will continue to be performed in a substandard facility which results in reduced productivity

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIR FREIGHT TERMINAL (DBOF) | AJXF923002 |

and low worker morale.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, contracting out services, renovation and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIR FREIGHT TERMINAL (DBOF) | AJXF923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 17 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 29 |
| (d) | Date Design Complete | 93 SEP 27 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 225 |
| (b) | All Other Design Costs | 138 |
| (c) | Total | 363 |
| (d) | Contract | 326 |
| (e) | In-house | 37 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 610-000 | AJXF943010 | 9,940 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE COMPOSITE ADMINISTRATION | | | | |
| FACILITY (DBOF) | SF | 347,500 | 7 | 2,433 |
| SUPPORTING FACILITIES | | | | 6,050 |
| HVAC | LS | | | (3,600) |
| DEMOLITION | SF | 215,000 | 5 | (1,075) |
| COMMUNICATIONS | LS | | | ( 875) |
| SYSTEMS FURNITURE | LS | | | ( 500) |
| SUBTOTAL | | | | 8,483 |
| CONTINGENCY (10%) | | | | 848 |
| TOTAL CONTRACT COST | | | | 9,331 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 607 |
| TOTAL REQUEST | | | | 9,938 |
| TOTAL REQUEST (ROUNDED) | | | | 9,940 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (650) |

10. Description of Proposed Construction: Structural, mechanical and electrical upgrade required to accommodate new occupants.

11. REQUIREMENT: 672,931 SF ADEQUATE: 341,944 SF
SUBSTANDARD: 190,087 SF

PROJECT: Upgrade composite administration building and inadequate utility systems for new occupancy following relocation/integration of Air Force Systems Command into new command. (Current Mission)

REQUIREMENT: Improve existing facility to support complete change in occupancy. New occupants will move into the facility from substandard facilities on Andrews and from other installations. Demolition of 10 substandard facilities totalling 65 KSF and a Bolling AFB 119.8 KSF facility is included in this project. An additional 7 facilities totalling 31 KSF will be temporarily reused to relieve a space shortage in the Air National Guard Bureau (ANGB) HQ and demolished during FY95 MILCON construction of a new ANGB facility. Total space reductions achieved through this project are demolition of 215 KSF of substandard facilities. This project supports facility consolidation and reduction initiatives. This facility will provide a centralized customer service center for base civilian and military personnel, finance, pass and identification, legal, claim services, transportation management office and scheduled airlines ticket office. It will also become the new headquarters for HQ/AFOSI.

CURRENT SITUATION: Combining Air Force Systems Command and Air Force Logistics Command into Air Force Materiel Command at Wright-Patterson AFB leaves bldg 1535 at Andrews AFB available for complete change of occupancy. Administrative occupants from Andrews and from the National Capital Region (NCR) will move into existing offices. HQ/AFOSI's current facility suffers from severe termite damage precluding the addition of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ANDREWS AIR FORCE BASE, MARYLAND | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | | AJXF943010 |

safes and the updating of computer systems, in addition to causing a safety hazard. To date, the 89 AW and 89 SPTG staff have moved in with portions of finance, manpower, 89 AW Judge Advocate, 89 AW Community Support, CBPO, Civilian Personnel and Traffic Management. The functions which can move without construction have moved. The major components of the heating system are original from 1946 construction of the building, and the air conditioning system is 1964 construction. The main chillers and air handling units are no longer available, and the system is overtaxed because the loads in the building have gradually increased over the years. Air handling units are undersized for the building configuration and loads and wall mounted fan coil units are ineffective for open office areas. Current substandard facilities require inordinate amounts of utilities, maintenance and repair. Parts are not available to repair obsolete systems, requiring extra effort in manufacturing or altering substitutes.

IMPACT IF NOT PROVIDED: If upgrades are not accomplished building tenants will be forced to occupy substandard spaces. HQ AFOSI will not be able to meet expanding mission requirements levied by DOD, HQ USAF, and the NCA because of the structural limitations of their current facility. In addition, the condition of facility systems, including HVAC, lighting, electrical, and security will continue to degrade, increasing the drain on scarce O&M resources. System outages impact the ability of occupants to perform their missions.

ADDITIONAL: This project will result in the vacating of facilities on the following government properties: Washington Navy Yard (1,100 SF), Bolling AFB (98,500 SF) and Fort Belvoir (19,652 SF). Initial beddown requirements (excluding HQ AFOSI) were met under O&M renovation project AJXF921586, Renovate Base Headquarters. The primary justification for this project is consolidation and reduction of space. An economic analysis has been performed which supports this project as the most economical alternative to provide adequate facilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | AJXF943010 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 93 APR 20 |
| (b) Percent Complete as of Jan 93 | 2% |
| (c) Date 35% Designed | 93 OCT 01 |
| (d) Date Design Complete | 94 MAR 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 483 |
| (b) All Other Design Costs | 322 |
| (c) Total | 805 |
| (d) Contract | 478 |
| (e) In-house | 327 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| OFFICE EQUIPMENT | 3080 | 93 | 650 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | UPGRADE SANITARY SEWER SYSTEMS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 832-266 | AJXF913002 | 2,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE SANITARY SEWER SYSTEMS | LF | 27,700 | | 1,822 |
| UPGRADE SANITARY SEWER SYSTEM | LF | 12,700 | 49 | ( 622) |
| REPLACE SANITARY SEWER SYSTEM | LF | 15,000 | 80 | (1,200) |
| SUPPORTING FACILITIES | | | | 450 |
| SITE IMPROVEMENTS/DEMOLITION | LS | | | ( 450) |
| SUBTOTAL | | | | 2,272 |
| CONTINGENCY (10%) | | | | 227 |
| TOTAL CONTRACT COST | | | | 2,499 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 150 |
| TOTAL REQUEST | | | | 2,649 |
| TOTAL REQUEST (ROUNDED) | | | | 2,650 |

10. Description of Proposed Construction: Upgrade or replace sanitary sewer mains. Work includes installing protective linings, replacing existing pipe, demolition and necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewer systems. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project, required to upgrade the existing cast iron piping system with an environmentally compatible piping system. Included is the removal of 17 industrial pump stations and 16 interceptors and converting portions of the sewage system to gravity feed. These improvements are required to bring the sewage system into compliance with State of Maryland regulatory laws contained in COMAR 26.08.04.

CURRENT SITUATION: Portions of the west and east side sewer systems are poorly configured with a maze of subsystems which prevent an efficient flow pattern. The system has developed numerous failures resulting in sewage flow into the ground. The base is located between the water sheds of the Potomac River and the Patuxent River. This places the base at high risk to pollute the waterways leading into the Chesapeake Bay. The State of Maryland has inspected the sewage system and is presently debating whether or not to renew the base's National Pollutant Discharge Elimination System (NPDES) permit because of the systems deteriorated condition.

IMPACT IF NOT PROVIDED: The sanitary sewer system will continue to deteriorate, thus increasing the amount of sewage flow into the ground. This will expose the Air Force and DOD to adverse publicity and possible fines.

ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWER SYSTEMS | AJXF913002 |

Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that satisfies regulatory requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWER SYSTEMS | AJXF913002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 25 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 12 |
| (d) Date Design Complete | 93 JUL 09 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 145 |
| (b) All Other Design Costs | 106 |
| (c) Total | 251 |
| (d) Contract | 221 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| FORT GEORGE G MEADE, MARYLAND | | 1.05 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 1,450 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 1,450 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | CMPL |
|---|---|---|---|---|---|
| 141-456 | ADD TO OPERATIONS FACILITY | 7,000 SF | 1,450 | JUL 92 | AUG 93 |
| | | TOTAL: | 1,450 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FORT GEORGE G. MEADE, MARYLAND | ADD TO OPERATIONS FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.19 TIARA | 141-456 | PAYZ935057 | 1,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO OPERATIONS FACILITY | SF | 7,000 | 120 | 840 |
| SUPPORTING FACILITIES | | | | 470 |
| UTILITIES | LS | | | ( 350) |
| PAVEMENTS | LS | | | ( 120) |
| SUBTOTAL | | | | 1,310 |
| CONTINGENCY (5%) | | | | 66 |
| TOTAL CONTRACT COST | | | | 1,376 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 83 |
| TOTAL REQUEST | | | | 1,459 |
| TOTAL REQUEST (ROUNDED) | | | | 1,450 |

10. Description of Proposed Construction: Construct a structural metal building with concrete slab and exterior parking area to house maintenance area, logistics maintenance, storage, mobility equipment, war readiness support kits and operations space for SENIOR SCOUT airborne. Addition to provide high bays for drive-thru capability.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 18,700 SF ADEQUATE: 11,700 SF SUBSTANDARD: 0
PROJECT: Construct a 7,000 square foot sensitive compartmented information facility (SCIF) addition to house three SENIOR SCOUT Vans. (New Mission)
REQUIREMENT: The operations support SCIF is used to maintain, operate and store vans which house sophisticated mission computer equipment. Two vans currently are fully operational and on location; a third system is scheduled to arrive in early 1994. These systems are rapidly deployable mission vans which are loaded on tactical aircraft to provide flexible, tailored responses to tactical commanders. Space also is needed for required war readiness support kits and sensitive supplies.
CURRENT SITUATION: The existing facility is barely adequate for one system. The original building was designed for 35-foot long vans; however, 40-foot long vans were delivered. This has caused extremely cramped areas for maintenance operations when both vans are in-garrison. Drive-thru capability does not exist, and considerable time is spent jockeying vans into the maintenance areas. In addition, operations, logistics maintenance, and supply spaces now are overcrowded, and space is not available to support additional systems. The facility is located in the National Security Agency exclusive use area at Ft George G. Meade and is not part of the planned base closure action.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

FORT GEORGE G. MEADE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO OPERATIONS FACILITY | PAYZ935057 |

IMPACT IF NOT PROVIDED: Additional vans would be stored outside and left uncovered. These vans are not designed to be exposed to environmental elements and must be housed on an aircraft or within an enclosed facility. Temporary outside storage would require complete coverage by tarps or canvas, and additional temporary air conditioning systems and electrical power connections would be required. This will greatly hamper required maintenance and operational testing and jeopardize mission readiness.
ADDITIONAL: There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

FORT GEORGE G. MEADE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO OPERATIONS FACILITY | PAYZ935057 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 29 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 AUG 17 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 87 |
| (b) All Other Design Costs | 100 |
| (c) Total | 187 |
| (d) Contract | 115 |
| (e) In-house | 72 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| COLUMBUS AIR FORCE BASE, MISSISSIPPI | AIR TRAINING COMMAND | 0.82 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 378 | 789 | 318 | 205 | | | | | | 1,690 |
| b. End FY 1998 | 394 | 738 | 329 | 227 | | | | | | 1,688 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,015) | |
| b. Inventory Total As Of: (30 SEP 92) | 115,855 |
| c. Authorization Not Yet In Inventory: | 3,100 |
| d. Authorization Requested In This Program: | 2,900 |
| e. Authorization Included In Following Program: (FY 1995) | 4,650 |
| f. Planned In Next Four Program Years: | 14,500 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 141,005 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 136-664 | UPGRADE AIRFIELD LIGHTING | 60,000 LF | 2,900 | JUL 91 | AUG 93 |
| | | TOTAL: | 2,900 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 211-179 | FUEL SYSTEMS MAINTENANCE DOCK | 9,900 SF | 1,550 |
| 442-000 | T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | LS | 3,100 |
| | | TOTAL: | 4,650 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 134-375 | RAPCON CENTER | 15,600 SF | 2,400 |
| 149-962 | CONTROL TOWER | 1 EA | 2,600 |
| 211-153 | NONDESTRUCTIVE INSPECTION FACILITY | 5,400 SF | 1,400 |
| 211-177 | SMALL ACFT MAINTENANCE DOCK | 32,700 SF | 3,100 |
| 831-165 | WASTEWATER TREATMENT PLANT | 2 MG | 5,000 |

10. Mission or Major Functions: A flying training wing which conducts Undergraduate Pilot Training (UPT) with one T-37 squadron and one T-38 squadron. Also, base will undergo a T-37 to T-1 aircraft conversion.

11. Outstanding pollution and safety (OSH) deficiencies:

| | | |
|---|---|---|
| a. | Air pollution: | 0 |
| b. | Water pollution: | 5,350 |
| c. | Occupational safety and health: | 0 |
| d. | Other Environmental: | 350 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| COLUMBUS AIR FORCE BASE, MISSISSIPPI | UPGRADE AIRFIELD LIGHTING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 136-664 | EEPZ933000 | 2,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE AIRFIELD LIGHTING | LF | 54,500 | | 626 |
| RUNWAY LIGHTING 13L/31R | LF | 8,000 | 16 | ( 128) |
| RUNWAY LIGHTING 13C/31C | LF | 12,000 | 6 | ( 72) |
| RUNWAY LIGHTING 13R/31L | LF | 6,300 | 14 | ( 88) |
| TAXIWAY LIGHTING | LF | 28,200 | 12 | ( 338) |
| SUPPORTING FACILITIES | | | | 1,825 |
| DISTANCE MARKERS/WIND CONES | LS | | | ( 305) |
| THRESHOLD LIGHTING | LS | | | (1,005) |
| ALSF-1 APPROACH LIGHTING-CENTER RW | LS | | | ( 345) |
| VISUAL GLIDESLOPE INDICATOR | LS | | | ( 170) |
| SUBTOTAL | | | | 2,451 |
| CONTINGENCY (10%) | | | | 245 |
| TOTAL CONTRACT COST | | | | 2,696 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 162 |
| TOTAL REQUEST | | | | 2,858 |
| TOTAL REQUEST (ROUNDED) | | | | 2,900 |

10. Description of Proposed Construction: New high intensity threshold, pre-threshold and terminating bar lights, new north approach lighting system with sequenced flashers (ALSF-1), new lighting cable and isolation transformers, new distance markers and illuminated wind cones, new precision approach path indicator (PAPI) lights, new cables on runways 13R/31L, 13C/31C, and 13L/31R, taxiways and SAC apron.

11. REQUIREMENT: As required.

PROJECT: Upgrade airfield lighting. (Current Mission)

REQUIREMENT: This project is required to properly modify, upgrade and standardize existing visual navigational aid facilities to FAA and Air Force standards. This will improve operational safety, reliability and efficiency of the airfield through the use of equipment, fixtures and materials that can be adequately maintained. This lighting upgrade was identified in the 1988 Air Training Command Master Planning Study of Airfield Lighting Systems at Columbus AFB and is required for the proper training and safety of inexperienced student pilots.

CURRENT SITUATION: Inexperienced student pilots fly 240 sorties per day to comply with the strict flying syllabus. Worst airfield lighting system in ATC as determined by ATC engineering analysis. Base experienced 20 major outages in 1991, one resulting in a two week downtime. Threshold lighting does not provide high intensity lighting required by Air Force directives. Antiquated glide slope indicators and other light equipment are difficult and expensive to maintain. The existing cables have excessive current losses associated with advanced stages of insulation deterioration.

IMPACT IF NOT PROVIDED: Airfield will be non-operational during inclement weather/night flying. Student pilots will not meet curriculum schedules

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| COLUMBUS AIR FORCE BASE, MISSISSIPPI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE AIRFIELD LIGHTING | | EEPZ933000 |

when night flying is stopped.
ADDITIONAL: An economic analysis was not prepared because this project directly supports a mission function for which there is no available alternative but to upgrade the airfield lighting. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

COLUMBUS AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING | EEPZ933000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 91 JUL 08 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 91 NOV 26 |
| (d) Date Design Complete | 93 AUG 20 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 180 |
| (b) All Other Design Costs | 25 |
| (c) Total | 205 |
| (d) Contract | |
| (e) In-house | 205 |

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| KEESLER AIR FORCE BASE, MISSISSIPPI | AIR TRAINING COMMAND | 0.84 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1039 | 4060 | 2021 | 157 | 2900 | 77 | 28 | 62 | | 10,344 |
| b. End FY 1998 | 1036 | 4322 | 2294 | 301 | 2868 | 18 | 48 | 1352 | 6 | 12,245 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,546) | |
| b. Inventory Total As Of: (30 SEP 92) | 267,157 |
| c. Authorization Not Yet In Inventory: | 9,750 |
| d. Authorization Requested In This Program: | 8,710 |
| e. Authorization Included In Following Program: (FY 1995) | 13,550 |
| f. Planned In Next Four Program Years: | 18,700 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 317,867 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | 1 EA | 690 | AUG 92 | AUG 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 21 EA | 600 | AUG 92 | JUL 93 |
| 721-312 | UPGRADE STUDENT DORMITORY | 483 PN | 4,500 | JUN 92 | NOV 93 |
| 832-266 | UPGRADE SANITARY SEWER SYSTEM | 418,000 LF | 2,920 | SEP 92 | DEC 93 |
| | | TOTAL: | 8,710 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 171-621 | 7-LEVEL TRAINING CLASSROOMS | 11,400 SF | 1,800 | |
| 721-315 | 7-LEVEL TRAINING DORMITORY | 89,000 SF | 8,800 | |
| 812-224 | UPGRADE ELECTRICAL SYSTEM | LS | 2,950 | |
| | | TOTAL: | 13,550 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 721-312 | REPLACE DORMITORY AND DINING FACILITY | 500 PN | 4,700 |
| 721-312 | STUDENT DORMITORY | 500 PN | 4,800 |
| 740-674 | PHYSICAL FITNESS CENTER | 28,500 SF | 4,900 |
| 824-464 | UPGRADE BASE GAS SYSTEM | LS | 4,300 |

10. Mission or Major Functions: Training center for avionics, communications, electronics, radar systems, computer and command-and-control systems, personnel, and administrative courses; an Air Force Reserve airlift wing (C-130 and WC-130 aircraft); an Air Combat Command airborne command and control squadron (EC-130 aircraft); and a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KEESLER AIR FORCE BASE, MISSISSIPPI | UPGRADE STUDENT DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 721-312 | MAHG933000 | 4,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE STUDENT DORMITORY | SF | 137,500 | 22 | 3,025 |
| SUPPORTING FACILITIES | | | | 820 |
| UTILITIES | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| ASBESTOS REMOVAL | LS | | | ( 730) |
| SUBTOTAL | | | | 3,845 |
| CONTINGENCY (10%) | | | | 385 |
| TOTAL CONTRACT COST | | | | 4,230 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 254 |
| TOTAL REQUEST | | | | 4,484 |
| TOTAL REQUEST (ROUNDED) | | | | 4,500 |

10. Description of Proposed Construction: All work necessary to renovate one enlisted student dormitory. Remove asbestos materials; upgrade all latrines; replace the HVAC system and roof; upgrade electric service and distribution; install new ceiling and lights; replace all windows, doors, and frames; install gypsum board wall surfaces, new floor covering, hurricane panels and other features as required.
Air Conditioning: 350 Tons. Grade Mix: 500 E1-E4.

11. REQUIREMENT: 5,630 PN ADEQUATE: 2,420 PN SUBSTANDARD: 4,407 PN
PROJECT: Upgrade student dormitory. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Adequate on-base living quarters are required to accommodate enlisted students preparing for highly technical career fields to ensure that an environment conducive to studying is available. Properly designed and finished quarters are essential to meet the housing needs of all students.
CURRENT SITUATION: The existing dormitory, which is far below Air Force Standards, was constructed in 1953. Common latrines, inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems, settled floors and foundation problems are major deficiencies in this facility. Upgrade is required to extend the life of the facility an additional 25 years and provide adequate living conditions for students. Project will not change the interior configuration of common latrines.
IMPACT IF NOT PROVIDED: The student dormitory will remain substandard and will require increasingly larger investments of scarce operations and maintenance resources. Substandard living conditions will continue to be a major quality of life issue.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STUDENT DORMITORY | MAHC933000 |

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STUDENT DORMITORY | MAHG933000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 30 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 10 |
| (d) Date Design Complete | 93 NOV 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | KEESLER |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 275 |
| (b) All Other Design Costs | 45 |
| (c) Total | 320 |
| (d) Contract | 242 |
| (e) In-house | 78 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KEESLER AIR FORCE BASE, MISSISSIPPI | UPGRADE SANITARY SEWER SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.56T | 832-266 | MAHG943010 | 2,920 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE SANITARY SEWER SYSTEM | LS | | | 1,950 |
| SUPPORTING FACILITIES | | | | 515 |
| UTILITIES | LS | | | ( 5) |
| PAVEMENTS | LS | | | ( 5) |
| REMEDIATION OF CONTAMINATION | LS | | | ( 505) |
| SUBTOTAL | | | | 2,465 |
| CONTINGENCY (10%) | | | | 247 |
| TOTAL CONTRACT COST | | | | 2,712 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 176 |
| TOTAL REQUEST | | | | 2,888 |
| TOTAL REQUEST (ROUNDED) | | | | 2,920 |

10. Description of Proposed Construction: Perform all work to upgrade the existing sanitary sewer system and remediate associated contamination throughout the entire base.

11. REQUIREMENT: As required.

PROJECT: Upgrade the sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. The Environmental Protection Agency (EPA) requires known releases of hazardous substances to the environment be cleaned up under the laws of the Resource Conservation and Recovery Act (RCRA). A condition of the base's RCRA Part B Permit is to remediate the sanitary sewer system, which has been identified by EPA. Repair and upgrade of existing underground sanitary sewer lines is required to prevent environmental contamination, overloading due to storm water infiltration and to protect the health and welfare of individuals working and residing on base.

CURRENT SITUATION: The existing sewer lines were designed and constructed in 1941 to meet the requirements on Keesler AFB at that time. A TV survey of approximately 20% of the system identified more than 30 breaks or offset joints. Clay and concrete pipe systems have deteriorated, causing ground water and heavy rain infiltration thus causing raw sewage to overflow into the storm water system. This overflow has the potential to pollute the Mississippi Sound and the Back Bay of Biloxi, which are highly used recreational and sensitive shell fish areas.

IMPACT IF NOT PROVIDED: The base is in violation of polluting state waters and under RCRA will be subject to penalties, enforcement action, and possible loss of RCRA permit from EPA.

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| KEESLER AIR FORCE BASE, MISSISSIPPI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE SANITARY SEWER SYSTEM | | MAHG943010 |

requirements; therefore, no economic analysis was needed or performed. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWER SYSTEM | MAHG943010 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 170 |
| (b) All Other Design Costs | 85 |
| (c) Total | 255 |
| (d) Contract | 210 |
| (e) In-house | 45 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | AIR COMBAT COMMAND | 1.11 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 481 | 2911 | 395 | | | | | | | 3,787 |
| b. End FY 1998 | 353 | 2661 | 361 | | | | | | | 3,375 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,958) | |
| b. Inventory Total As Of: (30 SEP 92) | 478,866 |
| c. Authorization Not Yet In Inventory: | 212,670 |
| d. Authorization Requested In This Program: | 43,538 |
| e. Authorization Included In Following Program: (FY 1995) | 30,350 |
| f. Planned In Next Four Program Years: | 38,670 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 804,094 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 113-321 | B-2 AIRCRAFT APRON/TAXIWAY UPGRADE | | LS | 3,400 | JUN 92 | JUL 93 |
| 121-122 | B-2 HYDRANT FUELING SYSTEM LOOP II, PHASE II | 1,500 | LF | 2,700 | AUG 91 | MAY 93 |
| 211-173 | B-2 AIRCRAFT MAINTENANCE DOCKS | 2 | EA | 14,500 | AUG 91 | MAY 93 |
| 214-467 | B-2 VEHICLE MAINTENANCE FACILITY | 7,000 | SF | 1,700 | AUG 92 | JUL 93 |
| 422-264 | B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | | LS | 3,338 | AUG 92 | AUG 93 |
| 800-000 | B-2 UTILITY UPGRADE | | LS | 4,850 | AUG 92 | DEC 93 |
| 851-147 | B-2 UPGRADE BASE ROADS, PHASE I | | LS | 5,900 | JUN 90 | DEC 93 |
| 851-147 | B-2 DEFENSE ACCESS ROADS | | LS | 7,150 | MAY 92 | JUL 93 |
| | | TOTAL: | | 43,538 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 113-321 | B-2 AIRCRAFT APRON, TAXIWAY AND CONVOY ROADS | 20,900 | SY | 4,800 |
| 141-453 | BASE OPERATIONS FACILITY | 16,200 | SF | 3,050 |
| 211-173 | B-2 MAINTENANCE DOCKS/HYDRANT FUELING SYSTEM | 2 | EA | 15,700 |
| 800-000 | B-2 ADD TO AND ALTER UTILITY SYSTEM | | LS | 2,600 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,000 |
| 872-247 | AIRFIELD FENCING | 25,400 | LF | 1,200 |
| 880-000 | B-2 ADD TO AND ALTER DOCK AND HANGAR FIRE PROTECTION SYSTEMS | 144,000 | SF | 2,000 |
| | TOTAL: | | | 30,350 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 211-111 | B-2 AIRCRAFT MAINTENANCE DOCKS | | LS | 25,000 |
| 442-758 | WAREHOUSE | 107,000 | SF | 9,900 |
| 740-443 | TRANSIENT LODGING FACILITY | 8 | UN | 750 |
| 740-674 | PHYSICAL FITNESS CENTER | 14,500 | SF | 2,500 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| WHITEMAN AIR FORCE BASE, MISSOURI | AIR COMBAT COMMAND | 1.11 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

830-000 SANITARY SEWER CONNECTION LS 520

10. Mission or Major Functions: A missile wing consisting of three Minuteman intercontinental ballistic missile squadrons and a combat air rescue detachment with HH-1 helicopters. Primary base to receive the new B-2 bomber.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,520 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 AIRCRAFT APRON/TAXIWAY UPGRADE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 113-321 | YWHG929240 | 3,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 AIRCRAFT APRON/TAXIWAY UPGRADE | SY | 16,300 | 130 | 2,119 |
| SUPPORTING FACILITIES | | | | 780 |
| BLAST FENCE | LF | 1,100 | 709 | ( 780) |
| SUBTOTAL | | | | 2,899 |
| CONTINGENCY (10%) | | | | 290 |
| TOTAL CONTRACT COST | | | | 3,189 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 191 |
| TOTAL REQUEST | | | | 3,380 |
| TOTAL REQUEST (ROUNDED) | | | | 3,400 |

10. Description of Proposed Construction: Level and grade site; install drainage tile and pipe and tie into drainage system; construct rigid pavement aprons connecting to existing taxiways and munitions convoy routes. Install blast fence.

11. REQUIREMENT: As required.

PROJECT: B-2 aircraft apron/taxiway upgrade. (New Mission)

REQUIREMENT: Adequate pavements are required to support all B-2 ground operations. A taxiway and access apron must be provided to allow access from maintenance docks to hardstands (parking positions for weapons upload). Convoy roads are also required to support movement of weapons from the weapons storage area to the aircraft docks and hardstands. Blast fences are required to protect fuel storage tanks.

CURRENT SITUATION: No access apron exists to provide access to new aircraft maintenance docks, taxiways or munitions convoy roads.

IMPACT IF NOT PROVIDED: Aircraft and munitions load trailers will not have access to the maintenance docks and hardstands. Without weapons, the aircraft cannot be readied and will not be able to perform their assigned mission, thereby impacting national defense plans.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 AIRCRAFT APRON/TAXIWAY UPGRADE | YWHG929240 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 15 |
| (d) Date Design Complete | 93 JUL 28 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | WHITEMAN |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 210 |
| (b) All Other Design Costs | 105 |
| (c) Total | 315 |
| (d) Contract | |
| (e) In-house | 315 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 HYDRANT FUELING SYSTEM LOOP II, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 121-122 | YWHG959204 | 2,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 HYDRANT FUELING SYSTEM LOOP II, PHASE II | LF | 1,800 | 800 | 1,440 |
| SUPPORTING FACILITIES | | | | 990 |
| UTILITIES | LS | | | ( 135) |
| PAVEMENTS | LS | | | ( 65) |
| SITE IMPROVEMENTS | LS | | | ( 215) |
| FUEL PITS AND DRAINS | LS | | | ( 575) |
| SUBTOTAL | | | | 2,430 |
| CONTINGENCY (5%) | | | | 122 |
| TOTAL CONTRACT COST | | | | 2,552 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 153 |
| TOTAL REQUEST | | | | 2,705 |
| TOTAL REQUEST (ROUNDED) | | | | 2,700 |

10. Description of Proposed Construction: Fuel piping distribution network for remaining docks, access road for vehicles and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct B-2 hydrant fueling system, loop II, phase II. (New Mission)

REQUIREMENT: A 4,800 gallon per minute (GPM) hydrant fuel system capable of providing 1,200 GPM to each of four aircraft simultaneously or 600 GPM to each of eight aircraft simultaneously. Force generation schedules for war and contingency missions require simultaneous fueling of multiple aircraft, which requires a system with a capacity of 4,800 GPM. Refueling outlets located inside B-2 maintenance docks will be supplied by this distribution loop.

CURRENT SITUATION: FY 90-93 Military Construction (MILCON) projects have provided a 4,800 GPM two-loop hydrant fueling system with distribution to eight maintenance dock spaces (FY 88-93 MILCON). This project completes the final phase of the second loop by providing fuel distribution for six future maintenance docks.

IMPACT IF NOT PROVIDED: B-2 refueling will have to be from tank trucks, a time consuming, labor intensive process that will not allow the wing to meet mission generation times. Accordingly, the Air Force has not programmed procurement of the large number of refueling trucks that would be required for truck refueling of the B-2.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| WHITEMAN AIR FORCE BASE, MISSOURI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| B-2 HYDRANT FUELING SYSTEM LOOP II, PHASE II | | YWHG959204 |

prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 HYDRANT FUELING SYSTEM LOOP II, PHASE II | YWHG959204 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 AUG 22 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 MAR 10 |
| (d) Date Design Complete | 93 MAY 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 135 |
| (b) All Other Design Costs | |
| (c) Total | 135 |
| (d) Contract | |
| (e) In-house | 135 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 AIRCRAFT MAINTENANCE DOCKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 211-173 | YWHG939279 | 14,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 AIRCRAFT MAINTENANCE DOCKS | SF | 52,500 | 160 | 8,400 |
| SUPPORTING FACILITIES | | | | 4,625 |
| UTILITIES | LS | | | ( 435) |
| SITE IMPROVEMENTS | LS | | | ( 350) |
| PAVEMENTS | LS | | | ( 640) |
| HYD/CASS | LS | | | ( 3,200) |
| SUBTOTAL | | | | 13,025 |
| CONTINGENCY (5%) | | | | 651 |
| TOTAL CONTRACT COST | | | | 13,676 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 821 |
| TOTAL REQUEST | | | | 14,497 |
| TOTAL REQUEST (ROUNDED) | | | | 14,500 |

10. Description of Proposed Construction: Heated steel frame structures with powered hangar doors, fire protection system, and prewired conduit for phone, data and security systems. Ground points in floor, oil/water separator, blast deflectors and Consolidated Aircraft Support System (CASS) (pantograph system, outlets and air conditioning). Inverted deluge system (IDS) underwing fire suppression.
Air Conditioning: 130 Tons.

11. REQUIREMENT: 367,500 EA ADEQUATE: 157,500 EA SUBSTANDARD: 0
PROJECT: Construct B-2 aircraft maintenance docks. (New Mission)
REQUIREMENT: All B-2 aircraft assigned to the base must have an enclosed space to permit maintenance under all environmental conditions. Enclosed facilities will include 14 maintenance docks, a fuel cell dock, corrosion control dock, and a heavy maintenance hangar (two spaces). This project provides maintenance docks 7 and 8. B-2 docks are constructed in pairs due to the shared hydrant fuel/CASS area. The docks provide a minimally heated environment for maintenance crews to work on structural, propulsion and electronic components. The dock must withstand jet blast as aircraft taxi out. Rear doors are sized for access by munitions loading trailers. Construction is phased to accommodate aircraft delivery and to take advantage of economies of scale. Refueling and CASS provisions are required in each maintenance space.
CURRENT SITUATION: Three maintenance spaces (fuel cell, corrosion control and one dock) were provided in the FY 88 MILCON and three in the FY 89 MILCON (alter existing hangar = 2 spaces; and 1 dock). Two maintenance dock spaces are in FY 91 and two in FY93. Six additional spaces will be programmed in future years (two spaces in FY 95 and the remainder in later years). No other facilities are available to provide covered maintenance

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 AIRCRAFT MAINTENANCE DOCKS | YWHC939279 |

space for aircraft already authorized.
IMPACT IF NOT PROVIDED: Because of the aircraft's low observable features, structural and propulsion maintenance tasks will have to be performed frequently. Complete coverage of the aircraft while on the ground will increase combat capability by reducing maintenance task times, repaint downtime, and fleet generation time. Failure to provide the necessary covered maintenance space will reduce aircraft availability and mission effectiveness, while increasing maintenance and turn-around time for the aircraft.
ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," nor in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 AIRCRAFT MAINTENANCE DOCKS | YWHG939279 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 AUG 22 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 91 NOV 04 |
| (d) Date Design Complete | 93 MAY 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 310 |
| (b) All Other Design Costs | 100 |
| (c) Total | 410 |
| (d) Contract | |
| (e) In-house | 410 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 VEHICLE MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 214-467 | YWHC949205 | 1,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 VEHICLE MAINTENANCE FACILITY | LS | | | 1,095 |
| VEHICLE REFUELING SHOP | SF | 4,000 | 180 | ( 720) |
| PETROLEUM OPERATIONS FACILITY | SF | 3,000 | 125 | ( 375) |
| SUPPORTING FACILITIES | | | | 440 |
| UTILITIES | LS | | | ( 150) |
| PAVEMENTS | LS | | | ( 225) |
| DEMOLISH BUILDINGS | SF | 2,300 | 7 | ( 15) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 1,535 |
| CONTINGENCY (5%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 1,612 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 97 |
| TOTAL REQUEST | | | | 1,709 |
| TOTAL REQUEST (ROUNDED) | | | | 1,700 |

10. Description of Proposed Construction: Concrete footings, block walls, brick veneer, and pitched metal roof. Facility will include wash rack/inspection bay, three maintenance bays, shops, storage, and administration space. Includes oil/water separator, connection to industrial wastewater treatment, entrapment curbs/dikes, security fencing, fire protection, utilities, pavements, and associated work.
Air Conditioning: 16 Tons.

11. REQUIREMENT: 7,000 SF ADEQUATE: 0 SUBSTANDARD: 1,950 SF
PROJECT: Construct B-2 vehicle maintenance facility. (New Mission)
REQUIREMENT: A maintenance shop is needed to service aircraft refueling vehicles and associated fuel handling equipment to support the B-2 mission. The number of refueling vehicles has more than doubled due to the increased workload associated with 18 T-38s and 24 A/OA-10s (T-38s support B-2s through the Accelerated Copilot Enrichment program). Although the B-2s will be serviced primarily via the hydrant system, the T-38s and A/OA-10s will be serviced strictly by refueling vehicles. A four-bay facility is required for the following functions: One bay provides for operations functions, wash rack, inspection, dispatch, emergency showers, latrines, and a locker room for removing fuel contaminated-clothing. One bay is used primarily for storage of the large amount of test equipment. The remaining two bays are strictly for performing maintenance.
CURRENT SITUATION: No adequately sized facility exists to accommodate the new refueling vehicles and expansion of the existing two-bay facility is not feasible. The existing bays are four feet too short to accommodate an R-11 refueling vehicle. They lack OSHA-required ventilation to prevent maintenance personnel from being exposed to fuel fumes. The facility

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 VEHICLE MAINTENANCE FACILITY | YWHG949205 |

lacks a fire suppression system, and it does not have fuel/water separators and spill containment features the Clean Water Act requires. The existing fuel storage tanks do not meet EPA underground storage tank standards for leak detection or spill prevention and have released fuels into the base sewer treatment plant in violation of the base's National Pollutant Discharge Elimination System permit. The environmental, fire, structural, and safety limitations of the existing facility would make expansion expensive. In addition, the existing facility is located two miles from the flightline, which means the large refueling vehicles are driven back and forth through community and dormitory areas. The existing 2,300 SF facility will be demolished with this project.
IMPACT IF NOT PROVIDED: Without this project, the base cannot properly maintain the refueling vehicles that directly support Whiteman's flying missions. In addition, if this facility is not constructed, unsafe refueling maintenance and repair techniques may be employed in an attempt to meet mission needs, which may result in costly damage to equipment and injury to personnel. Lastly the Air Force could be liable for environmental fines resulting from EPA/DNR notices of violation.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, Facility Planning and Design Guide. However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 VEHICLE MAINTENANCE FACILITY | YWHG949205 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 20 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 NOV 16 |
| (d) | Date Design Complete | 93 JUL 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 102 |
| (b) | All Other Design Costs | 251 |
| (c) | Total | 353 |
| (d) | Contract | 195 |
| (e) | In-house | 158 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE . |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 422-264 | YWHG949209 | 3,338 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | LS | | | 2,294 |
| ALTER STORAGE IGLOO | SF | 10,700 | 32 | ( 342) |
| ROTARY LAUNCHER STORAGE FACILITY | SF | 6,000 | 120 | ( 720) |
| ADD STORAGE IGLOO | SF | 5,600 | 220 | (1,232) |
| SUPPORTING FACILITIES | | | | 565 |
| UTILITIES | LS | | | ( 160) |
| PAVEMENTS | LS | | | ( 350) |
| SITE IMPROVEMENTS | LS | | | ( 55) |
| SUBTOTAL | | | | 2,859 |
| CONTINGENCY (10%) | | | | 286 |
| TOTAL CONTRACT COST | | | | 3,145 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 189 |
| TOTAL REQUEST | | | | 3,334 |
| TOTAL REQUEST (ROUNDED) | | | | 3,338 |

10. Description of Proposed Construction: Earthwork and concrete foundations. Alter/upgrade existing igloos and adjoining pavements for B-2 conventional munitions storage requirements. Provide steel rotary launcher assembly (RLA) storage facility with roll-up doors and concrete ramp on each end of the igloos and the new RLA building, necessary utilities, and fire protection.

11. REQUIREMENT: As required.
PROJECT: B-2 add to and alter munitions storage facilities. (New Mission)
REQUIREMENT: Adequate storage for conventional munitions and rotary launcher equipment for the B-2 aircraft. All of the existing eleven Minuteman II munitions storage igloos must be altered to accommodate B-2 conventional munitions storage. The igloo must be of sufficient construction and condition to store conventional B-2 weapons safely and securely. An all weather building is required to store and protect rotary launcher assemblies (RLAs) and launch loading adaptors (LLAs). A 100-ft wide apron is required at the end of the RLA/LLA storage facility to allow for access of B-2 munitions handling equipment.
CURRENT SITUATION: The base has insufficient storage capacity for B-2 conventional munitions and rotary launcher assemblies. No space is available to accommodate the rotary launcher assembly storage requirement.
IMPACT IF NOT PROVIDED: Storage for munitions and related equipment will not be available.
ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | YWHG949209 |

Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 ADD TO AND ALTER MUNITIONS STORAGE FACILITIES | YWHG949209 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 AUG 13 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 92 DEC 09 |
| | (d) Date Design Complete | 93 AUG 01 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 180 |
| | (b) All Other Design Costs | 188 |
| | (c) Total | 368 |
| | (d) Contract | |
| | (e) In-house | 368 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 UTILITY UPGRADE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 800-000 | YWHG942500 | 4,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 UTILITY UPGRADE | LS | | | 3,950 |
| ELEC DISTR AND TRANS LINES | LS | | | ( 150) |
| WASTE/STORM COLLECTION SYSTEM | LS | | | ( 625) |
| RELOCATE COMM LINES | LS | | | ( 300) |
| TERTIARY TREATMENT LAGOON SYSTEM | LS | | | (2,875) |
| SUPPORTING FACILITIES | | | | 185 |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| PAVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 4,135 |
| CONTINGENCY (10%) | | | | 414 |
| TOTAL CONTRACT COST | | | | 4,549 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 273 |
| TOTAL REQUEST | | | | 4,822 |
| TOTAL REQUEST (ROUNDED) | | | | 4,850 |

10. Description of Proposed Construction: Water, sewer, industrial waste treatment, pavements, transformers, poles, gas distribution, and electric cable. Associated demolition, excavation of valves, and manholes; connections to existing utilities.

11. REQUIREMENT: As required.

PROJECT: B-2 utility upgrade. (New Mission)

REQUIREMENT: On-base utilities and infrastructure require expansion to support an increased demand associated with the B-2 mission. Electrical power, sewer, water and industrial wastewater treatment must be upgraded and expanded to support the construction of hydrant fuel systems, maintenance docks, vehicle maintenance and weapons storage facilities. The storm water collection system requires upgrade to remain in compliance with the Clean Water Act (40 CFR 122.26), after completion of the facilities mentioned above causes an increase in storm water runoff. A tertiary sewage treatment lagoon system is required to remove heavy metals and toxic compounds from the runoff collected from the airfield and maintenance docks.

CURRENT SITUATION: Existing base utility systems were built in the 1950s and are not capable of supporting the new facilities being built to support the B-2 mission. Whiteman AFB utility systems have been partially upgraded through the FY 88-93 MILCON programs; however, facilities constructed in subsequent programs require additional funding for connection to main systems, and the main systems themselves require upgrade to meet the added demands.

IMPACT IF NOT PROVIDED: The existing utility system will be unable to support the new facilities constructed as part of the B-2 beddown. Lack of adequate utilities will reduce day-to-day operating capability, and, in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| WHITEMAN AIR FORCE BASE, MISSOURI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| B-2 UTILITY UPGRADE | | YWHG942500 |

the case of the storm water collection system, could result in storm water runoff violating the Clean Water Act. Violations could result in heavy fines and shut down of airfield operations. Similarly, not constructing the tertiary treatment lagoon would lead to violations of the base's National Pollutant Discharge Elimination System (NPDES) permit, once new B-2 facilities become operational.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 UTILITY UPGRADE | YWHG942500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 85 |
| (b) All Other Design Costs | 35 |
| (c) Total | 120 |
| (d) Contract | |
| (e) In-house | 120 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 UPGRADE BASE ROADS, PHASE I |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 851-147 | YWHG919240 | 5,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 UPGRADE BASE ROADS, PHASE I | LS | | | 4,573 |
| MITCHELL AVENUE AND SEVENTH STREET | LF | 10,700 | 410 | (4,387) |
| VISITOR CENTER | SF | 1,200 | 155 | ( 186) |
| SUPPORTING FACILITIES | | | | 450 |
| RELOCATE UTILITIES | LS | | | ( 100) |
| STORM DRAINAGE | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| PARKING PAVEMENTS AND DRAINS | LS | | | ( 75) |
| SUBTOTAL | | | | 5,023 |
| CONTINGENCY (10%) | | | | 502 |
| TOTAL CONTRACT COST | | | | 5,525 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 332 |
| TOTAL REQUEST | | | | 5,857 |
| TOTAL REQUEST (ROUNDED) | | | | 5,900 |

10. Description of Proposed Construction: Relocate required utilities. Demolish and reconstruct Mitchell Avenue and Seventh Street. Provide new subbase and concrete roadways for two lanes and a continuous left turn lane on Mitchell. Include curb and gutter, sidewalk, storm sewer and streetlighting. Add visitor center with parking near Mitchell Gate. Construct terrorist barriers at entrance gates.
Air Conditioning: 5 Tons.

11. REQUIREMENT: As required.
PROJECT: Upgrade base roads, Phase I. (New Mission)
REQUIREMENT: Adequate roadways and traffic control to provide safe and efficient flow of traffic throughout the base. In this phase, Mitchell Avenue will be widened to serve the dorm complex, community center, and adminstrative areas. A Visitor Center is required to divert visitor traffic from the main traffic flow and process individuals for entry to the base. Terrorist barriers are required at the main gates for immediate closure in the event of threatening conditions. In Phase II, a heavy duty road is required from the Mitchell Gate to the industrial area and to the fuel storage area for increased fuel deliveries via truck. Phase II is programmed for FY 96 at $5.8 million.
CURRENT SITUATION: Existing base streets and roads were not constructed to handle the volume and/or weight loads of vehicles associated with the dual wing mission or the construction activity for the B-2 mission beddown. The construction traffic and numerous utility cuts in the roadways (Mitchell Avenue has been cut and repaired 25 times during B-2 beddown construction) have virtually destroyed the existing base road infrastructure. Continuous temporary repairs to the damaged base roads are allowing base operations to continue. Traffic currently enters the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| WHITEMAN AIR FORCE BASE, MISSOURI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| B-2 UPGRADE BASE ROADS, PHASE I | | YWHG919240 |

base from two twenty-four hour gates and one part-time gate and is constricted to two lanes, one inbound and one outbound. The main roads through the base are already congested. Use of Mitchell Avenue by trucks has been restricted because of limited load (design) capacity of the pavement. Congestion frequently develops at the Mitchell Gate because there are no adequate parking facilities for visitors while they obtain proper clearances to enter the base.

IMPACT IF NOT PROVIDED: The combination of high traffic volume and inadequate base thoroughfares will result in potentially serious safety problems as traffic backs up onto off-base access roads during the morning rush hour. Traffic entering the base will encounter delays as the existing two-lane roads cannot efficiently handle the traffic load generated by the added B-2 mission. The safety of over 6,000 military and civilian personnel could be jeopardized by deteriorated roads which were not designed to handle the current or future traffic demands.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the scope/criteria specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 UPGRADE BASE ROADS, PHASE I | YWHG919240 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 JUN 04 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 90 AUG 20 |
| (d) Date Design Complete | 93 DEC 06 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 448 |
| (b) All Other Design Costs | 80 |
| (c) Total | 528 |
| (d) Contract | 289 |
| (e) In-house | 239 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 DEFENSE ACCESS ROADS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 851-147 | YWHG939302 | 7,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 DEFENSE ACCESS ROADS | LS | | | 5,395 |
| SUPPORTING FACILITIES | | | | 1,010 |
| SITE IMPROVEMENTS | LS | | | ( 555) |
| PAVEMENTS | LS | | | ( 455) |
| SUBTOTAL | | | | 6,405 |
| CONTINGENCY (5%) | | | | 320 |
| TOTAL CONTRACT COST | | | | 6,725 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 404 |
| TOTAL REQUEST | | | | 7,129 |
| TOTAL REQUEST (ROUNDED) | | | | 7,150 |

10. Description of Proposed Construction: Demolish existing pavements, reconstruct a wider road with adequate subbase and asphalt pavement. Includes concrete curbs, storm drains, street and traffic lighting. Relocate buried utilities and stripe roads.

11. REQUIREMENT: As required.

PROJECT: Construct defense access roads. (New Mission)

REQUIREMENT: Provide required safe access to the base gates on the west side of the base from State Highway 23 and US Highway 50, via a diamond interchange and connector to State route 132. This is the last phase of a multi-phase effort.

CURRENT SITUATION: FY 91 B-2 MILCON funds constructed bridges, installed roadway subbase in areas of Highway 50/23/Route 132 connector and upgraded subbase and pavement on existing route 132. However, these public access roads to the base are still inadequate for any increased traffic volume. Although the preceeding work improved the condition of the existing roads to Whiteman AFB, it did not increase the volume of traffic they could safely accommodate. After a defense access road "needs" report submittal to the Military Traffic Management Command (MTMC, US Army) for review, validation and coordination with federal, state, and local transportation agencies, MTMC determined that widening Route 132 from the base to Route 50, constructing an interchange at the intersection of Routes 132, 23 and 50, and realigning State Route 23 are all needed to handle traffic volume. All are eligible for federal funding.

IMPACT IF NOT PROVIDED: Public access roads, US Highway 50, State Highway 23 and State Route 132 leading to and from the base, will remain inadequate to handle traffic volume. Without these improvements, significant traffic hazards will go unabated. Excess volume on the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 DEFENSE ACCESS ROADS | YWHG939302 |

existing roads will make driving unsafe as will traffic entering arterial Highway 50 from a perpendicular secondary state road.
ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," nor in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 DEFENSE ACCESS ROADS | YWHC939302 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 MAY 06 |
| (b) Percent Complete as of Jan 93 | | 65% |
| (c) Date 35% Designed | | 92 SEP 20 |
| (d) Date Design Complete | | 93 JUL 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 300 |
| (b) All Other Design Costs | | 100 |
| (c) Total | | 400 |
| (d) Contract | | |
| (e) In-house | | 400 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | AIR MOBILITY COMMAND | 1.20 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 640 | 3766 | 479 | | | | 1 | 8 | 1 | 4,895 |
| b. End FY 1998 | 654 | 3680 | 471 | | | | 1 | 8 | 1 | 4,815 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,659) | |
| b. Inventory Total As Of: (30 SEP 92) | 308,189 |
| c. Authorization Not Yet In Inventory: | 24,290 |
| d. Authorization Requested In This Program: | 7,700 |
| e. Authorization Included In Following Program: (FY 1995) | 11,500 |
| f. Planned In Next Four Program Years: | 42,550 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 394,229 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 219-944 | BASE ENGINEERING COMPLEX (DBOF) | 56,100 SF | 6,200 | DEC 88 | JUN 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES | 15 EA | 1,500 | DEC 92 | SEP 93 |
| | | TOTAL: | 7,700 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 141-453 | BASE OPERATIONS AND TRAINING | 8,715 SF | 2,250 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 50 EA | 3,200 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS MINUTEMAN III FACILITIES | 32 EA | 4,000 |
| 740-884 | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 10,500 SF | 1,050 |
| 871-183 | UPGRADE STORM DRAINAGE FACILITIES | LS | 1,000 |
| | | TOTAL: | 11,500 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 141-782 | AIR FREIGHT TERMINAL | LS | 2,300 |
| 141-911 | ADD TO AND ALTER MISSILE OPERATIONS BUILDING | 78,900 SF | 9,200 |
| 141-911 | ADD TO AND ALTER MISSILE OPERATIONS BUILDING | 74,600 SF | 8,600 |
| 212-216 | ADD TO AND ALTER MISSILE MAINTENANCE SHOP | 10,400 SF | 2,150 |
| 610-249 | MISSILE COMBAT OPERATIONS CENTER | 49,000 SF | 8,700 |

10. Mission or Major Functions: An air refueling wing with two KC-135 squadrons; and Air Combat Command missile wing consisting of our Minuteman intercontinental ballistic missile squadrons, one of which maintains a continuous alert posture, and a combat air rescue detachment with UH-1 helicopters.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | AIR MOBILITY COMMAND | 1.20 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,500 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 6,350 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | BASE ENGINEERING COMPLEX (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96M | 219-944 | NZAS943250 | 6,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEERING COMPLEX (DBOF) | SF | 47,900 | | 4,753 |
| BASE PAVEMENTS & GROUND FACILITY | SF | 17,500 | 150 | (2,625) |
| BASE ENGINEER COVERED STORAGE | SF | 30,400 | 70 | (2,128) |
| SUPPORTING FACILITIES | | | | 840 |
| UTILITIES/COMM SUPPORT | LS | | | ( 740) |
| PAVEMENTS | SY | 2,800 | 36 | ( 100) |
| SUBTOTAL | | | | 5,593 |
| CONTINGENCY (5%) | | | | 280 |
| TOTAL CONTRACT COST | | | | 5,873 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 352 |
| TOTAL REQUEST | | | | 6,225 |
| TOTAL REQUEST (ROUNDED) | | | | 6,200 |

10. Description of Proposed Construction: Reinforced concrete foundation footings and floor slabs, concrete masonry unit or reinforced precast concrete walls, sloped roof on steel deck, electrically operated vehicle doors, utility services, oil/water separator, storm drainage, parking and storage area pavement upgrade, curbs, gutters, security fencing, CID, fire protection, area lighting and necessary support.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 163,415 SF ADEQUATE: 107,353 SF
SUBSTANDARD: 47,332 SF
PROJECT: Construct a base engineering complex. (Current Mission)
REQUIREMENT: Adequate and properly configured facilities are required to house base and missile site workforce management and control and in-house engineering and contract management staffs. Covered storage is required to protect construction materials and snow removal equipment/materials from pilferage and exposure to the deteriorating influences of the weather. Properly configured pavements and grounds and maintenance shop space must be provided for effective execution of facility and utility maintenance and repair responsibilities throughout the base, and off-base missile launch and control facilities. These functions must have an environment conducive to the effective maintenance and support of all facilities, and design/construction of facility projects. Overall space requirements have been adjusted downward in view of reduced future manning for the BCE organization.
CURRENT SITUATION: Adequate and safe facilities are not available. The pavements and equipment shop, exterior electric, equipment and material staging areas, and the management offices to support missile engineering, readiness management and training are currently accommodated in a

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX (DBOP) | NZAS943250 |

deteriorated World War II wood frame hangar. The facility has been assigned an OSHA Risk Assessment Code (RAC) II, and a Fire Protection Deficiency Code of II, both identifying a serious deficiency which could result in loss of life or resources valued at over $1M. Because of its location on the flightline, the facility also creates a hazard for aircraft operations due to mud and debris falling from maintenance vehicles and creating a foreign object damage potential for aircraft. The wood roof and wall trusses are cracked and rotten and the built-up roof leaks onto equipment and materials stored in the facility. The hangar has large sections where the cement asbestos siding is missing and has been replaced with painted plywood. The hangar has no wall or roof insulation and no fire suppression or detection systems. Most of the electrical distribution and lighting systems are 1943 vintage and are totally inadequate. The electrical distribution system is overloaded and is a fire hazard. A portion of the base engineer materials and equipment staging areas are located separately from the maintenance complex. This project will consolidate these functions.

IMPACT IF NOT PROVIDED: Base Civil Engineering management and support functions will continue operating from unsafe, undersized, separated and inadequate facilities which negatively impact mission capability and the morale of assigned personnel. The potential for catastrophic fire or industrial accident with serious injuries or significant loss of life and resources will remain unacceptably high.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX (DBOF) | NZAS943250 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 DEC 22 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 90 SEP 15 |
| (d) Date Design Complete | 93 JUN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 372 |
| (b) All Other Design Costs | 180 |
| (c) Total | 552 |
| (d) Contract | 439 |
| (e) In-house | 113 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.56M | 411-135 | NZAS932500 | 1,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | | | | |
| MINUTEMAN II FACILITIES | EA | 15 | 85,730 | 1,286 |
| SUBTOTAL | | | | 1,286 |
| CONTINGENCY (10%) | | | | 129 |
| TOTAL CONTRACT COST | | | | 1,415 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 85 |
| TOTAL REQUEST | | | | 1,500 |
| TOTAL REQUEST (ROUNDED) | | | | 1,500 |

10. Description of Proposed Construction: Excavate and remove 15 underground storage tanks. Dispose of tank residue and test soil at each site. Remove and dispose of any contaminated soil. Replace tanks with new double-walled tanks, interstitial leak detectors, double wall piping, spill/overflow protectors, corrosion control and necessary support.

11. REQUIREMENT: 269 EA ADEQUATE: 165 EA SUBSTANDARD: 95 EA
PROJECT: Replace underground fuel storage tanks (USTs), Minuteman II facilities. (Current Mission)
REQUIREMENT: This is a Level II environmental compliance requirement. All regulated USTs must be upgraded in accordance with Federal Law (40CFR 280.21) by December 1998. The law also requires underground tanks have leak detection, corrosion protection and spill/overflow prevention systems to protect human health and the environment.
CURRENT SITUATION: Underground storage tanks at missile sites in Montana do not meet Federal regulatory requirements for corrosion protection, leak detection monitoring and overflow/spill protection. These deficiencies must be corrected to prevent violation of Federal UST regulations. Currently, 95 USTs at missile launch and launch control facilities require upgrade or replacement to meet the 1998 Federal deadline. This project is the first of four phases, and will replace 15 USTs at 15 launch facilities. Unit costs for this project are higher than other locations due to the deeper depth of the tanks.
IMPACT IF NOT PROVIDED: These improvements to USTs are required by federal law. If they are not accomplished by the established deadline, the base will be in violation of the law and may begin receiving notices of violation, fines, and possible litigation. Undetected tank failures may result in contamination of soil and potable water supplies, resulting

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MALMSTROM AIR FORCE BASE, MONTANA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES | | NZAS932500 |

in a threat to human health and well being and extremely costly cleanup measures.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS MINUTEMAN II FACILITIES | NZAS932500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 DEC 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 15 |
| (d) Date Design Complete | 93 SEP 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 85 |
| (b) All Other Design Costs | 65 |
| (c) Total | 150 |
| (d) Contract | 120 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| OFFUTT AIR FORCE BASE, NEBRASKA | AIR COMBAT COMMAND | 0.99 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 2122 | 7500 | 1326 | | 58 | | | | | 11,006 |
| b. End FY 1998 | 1975 | 6900 | 1276 | | 58 | | | | | 10,209 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,006) | |
| b. Inventory Total As Of: (30 SEP 92) | 422,293 |
| c. Authorization Not Yet In Inventory: | 16,940 |
| d. Authorization Requested In This Program: | 11,000 |
| e. Authorization Included In Following Program: (FY 1995) | 10,400 |
| f. Planned In Next Four Program Years: | 37,400 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 498,033 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 111-111 | REPAIR AIRFIELD PAVEMENTS AND LIGHTING | 76,000 SY | 8,700 | JUL 92 | MAY 93 |
| 811-147 | ADD TO EMERGENCY BACK-UP POWER | 3,000 KW | 2,300 | AUG 92 | MAY 93 |
| | | TOTAL: | 11,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | 74 EA | 5,000 | |
| 219-943 | BCE VEHICLE READINESS FACILITY | 29,600 SF | 4,400 | |
| 871-183 | STORM DRAINAGE FACILITIES | LS | 1,000 | |
| | | TOTAL: | 10,400 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 110-000 | UPGRADE APRON AND TAXIWAYS | LS | 5,800 | |
| 121-124 | UPGRADE JET FUEL PUMPING FACILITY | LS | 3,300 | |
| 121-124 | UPGRADE HYDRANT FUEL PUMPING SYSTEM | LS | 18,600 | |
| 442-758 | WAREHOUSE | 20,000 SF | 2,500 | |
| 813-000 | UPGRADE ELECTRIC SUBSTATION | LS | 5,700 | |

10. Mission or Major Functions: Headquarters United States Strategic Command; a flying wing which consists of two reconnaissance squadrons (RC-135 aircraft), two airborne command and control squadrons (E-4 and EX-135 aircraft) which maintain a modified alert posture, and an airlift detachment (C-21 aircraft); an intelligence wing; Air Force Global Weather Central; and a USAF regional hospital.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| OFFUTT AIR FORCE BASE, NEBRASKA | REPAIR AIRFIELD PAVEMENTS AND LIGHTING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 111-111 | SGBP930909 | 8,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPAIR AIRFIELD PAVEMENTS AND LIGHTING | LS | | | 5,947 |
| UPGRADE PAVEMENTS | SY | 76,000 | 67 | (5,092) |
| EDGE DRAINS | LF | 13,900 | 4 | ( 56) |
| REPLACE APPROACH/THRESHOLD LIGHTING | LS | | | ( 799) |
| SUPPORTING FACILITIES | | | | 1,530 |
| SITE IMPROVEMENTS | LS | | | ( 530) |
| DEMOLITION/CONCRETE REMOVAL | CY | 50,000 | 20 | (1,000) |
| SUBTOTAL | | | | 7,477 |
| CONTINGENCY (10%) | | | | 748 |
| TOTAL CONTRACT COST | | | | 8,225 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 494 |
| TOTAL REQUEST | | | | 8,719 |
| TOTAL REQUEST (ROUNDED) | | | | 8,700 |

10. Description of Proposed Construction: Work necessary for renovation of airfield. Includes replacement of 6,800 LF of center section of runway, grooving, patching, sealing joints and cracks, striping, asphalt replacement, and edge drains. Includes demolition of abandoned runway and construction of blast pad. Includes repair of waterline under runway and replacement of approach/threshold lighting system. All necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade airfield pavements and lighting. (Current Mission)

REQUIREMENT: Adequate runway, taxiways and apron pavements to accommodate continuous use by KC/EC/RC-135 and E-4 aircraft. All pavements must be adequately constructed and maintained in such condition that hazards to aircraft and crews are not created by deteriorating pavements and pavement debris. Runways, taxiways, and parking aprons must be free from defects which might impede strategic reconnaissance, airborne command post "Looking Glass", National Emergency Airborne Command Post (NEACP), and various command support missions. A state-of-the-art, reliable threshold and approach lighting system is required to provide a visual approach reference to pilots when landing. A jet engine runup pad is required to support transient aircraft.

CURRENT SITUATION: The runway keel in each touchdown zone is deteriorating rapidly due to age and continuous heavy use. A 1989 pavement condition survey revealed a Pavement Condition Index (PCI) of less than 25 (VERY POOR) in the south touchdown zone and less than 55 (FAIR) for the balance of the keel section. Even with extensive in-house maintenance and repair efforts, the base has been successful in only returning the PCI in the south touchdown zone to a maximum of 45 (FAIR), with an estimated PCI of 10 (FAILED) or less within 5 years. Portions of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| OFFUTT AIR FORCE BASE, NEBRASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| REPAIR AIRFIELD PAVEMENTS AND LIGHTING | | SGBP930909 |

taxiways and aprons are equally bad and require selective replacement. Upgrade of other airfield areas during runway closure is necessary to minimize future impacts on the flying mission. Repair of a leaking water main which crosses under the north end of the runway is necessary to preclude further damage to the runway subbase. Relocation of this main away from the runway is not feasible due to the topography north of the airfield. The Visual Approach Slope Indicator (VASI) system is obsolete and will be replaced by a Precision Approach Path Indicator (PAPI) system. The VASI is old and unreliable and requires excessive maintenance and repair. It is increasingly difficult to support due to nonavailability of parts. The water main and approach/threshold lighting work is not directly associated with the runway work itself; however, this work would require runway closure if accomplished separately. Therefore, it is both practical and cost effective to include this work in this project. The demolition and removal of an abandoned runway is also necessary as this pavement is near the active runway and has deteriorated to the point that it has become a constant FOD problem.

IMPACT IF NOT PROVIDED: Continued runway deterioration will result in closure of the runway and relocation of the base mission. The base mission cannot be accomplished if the runway becomes excessively rough or becomes a source of debris which results in foreign object damage to aircraft or creates a hazard to aircraft or crews. Permanent relocation of critical base flying missions (reconnaissance, airborne command post, and NEACP) would be extremely costly due to the special ground suppport needs and functions associated with mission execution. Failure to provide modern and reliable lighting systems will jeopardize mission execution and the safety of aircrews during night landing operations.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that satisfies mission requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

OFFUTT AIR FORCE BASE, NEBRASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPAIR AIRFIELD PAVEMENTS AND LIGHTING | SGBP930909 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 25 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 28 |
| (d) Date Design Complete | 93 MAY 26 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 420 |
| (b) All Other Design Costs | 75 |
| (c) Total | 495 |
| (d) Contract | 25 |
| (e) In-house | 470 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| OFFUTT AIR FORCE BASE, NEBRASKA | ADD TO EMERGENCY BACK-UP POWER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 811-147 | SGBP900909 | 2,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO EMERGENCY BACK-UP POWER | LS | | | 2,040 |
| DIESEL GEN W/ACCESSORIES | KW | 3,000 | 420 | (1,260) |
| ADDITION TO EXISTING POWER PLANT | SF | 4,000 | 110 | ( 440) |
| MECHANICAL ALTERATIONS | LS | | | ( 180) |
| ELECTRICAL ALTERATIONS | LS | | | ( 160) |
| SUPPORTING FACILITIES | | | | 50 |
| FIRE PROTECTION SYSTEMS | LS | | | ( 10) |
| UTILITIES | LS | | | ( 40) |
| SUBTOTAL | | | | 2,090 |
| CONTINGENCY (5%) | | | | 105 |
| TOTAL CONTRACT COST | | | | 2,195 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 132 |
| TOTAL REQUEST | | | | 2,327 |
| TOTAL REQUEST (ROUNDED) | | | | 2,300 |

10. Description of Proposed Construction: Construct addition to power plant matching existing construction. Install one 3.0 MW diesel driven generator set with all accessories and connect to existing system. Includes additional cooling tower capability, relocation of waste lube-oil tank and storm drains, and substation modification. Includes all necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct addition to emergency power generator plant. (Current Mission)

REQUIREMENT: Emergency backup power capability to support a 13,550 KW connected load. Adequate backup power to support critical command and control functions including the STRATCOM command post, Air Force Global Weather, the HQ Space Command Processing Correlation Center, and functions associated with reconnaissance and intelligence gathering missions. The emergency power requirement has been reevaluated in view of changes in the Air Force command structure and is valid as proposed by this project.

CURRENT SITUATION: The existing power plant consists of three 650 KW and three 3.0 MW generator sets. The connected emergency power load is 123% of generator capacity. To prevent surge overloads and automatic plant shutdown, it is necessary to selectively and slowly bring the full load on line following a commercial power outage. Plant loading increases to 170% if one of the three large 3.0 MW generators is down for maintenance. The installation of one 3.0 MW generator set will provide capacity for the existing load. This project adds emergency power production capacity to support demands which have evolved since the plant was last upgraded years ago. This includes major new critical power demands to support missions such as the STRATCOM Command Post and the HQ Space Command Mission

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| OFFUTT AIR FORCE BASE, NEBRASKA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO EMERGENCY BACK-UP POWER | | SGBP900909 |

Processing and Correlation Center. Normal administrative functions are not included as a part of the emergency power load supported in this project. As a secondary benefit to the base, this plant is also used to provide supplemental power to the base electrical distribution system during periods of high demand (i.e., summer air conditioning loads). This practice results in a $500K to $750K net annual savings on the base utility bill by reducing the peak demands metered by the local utility company. These demands are used as the basis for future rate structures.
IMPACT IF NOT PROVIDED: The existing six emergency generator units cannot provide the required support. Delays will occur in bringing functions "on-line" during a commercial power outage. If an outage occurs while one generator unit is down for maintenance, some critical requirements will be unsupportable and operations requiring power will cease. Under best case conditions, such events will disrupt and delay command and control functions. Under worst case conditions, command and control of National Defense resources could be affected with significant implications on the readiness of defense systems.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

OFFUTT AIR FORCE BASE, NEBRASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO EMERGENCY BACK-UP POWER | SGBP900909 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 20 |
| (d) Date Design Complete | 93 MAY 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 138 |
| (b) All Other Design Costs | 69 |
| (c) Total | 207 |
| (d) Contract | 45 |
| (e) In-house | 162 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| NELLIS AIR FORCE BASE, NEVADA | AIR COMBAT COMMAND | 1.10 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 792 | 5421 | 975 | 100 | | | | | | 7,288 |
| b. End FY 1998 | 823 | 5949 | 1047 | 100 | | | | | | 7,919 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 24,419) | |
| b. Inventory Total As Of: (30 SEP 92) | 357,970 |
| c. Authorization Not Yet In Inventory: | 31,580 |
| d. Authorization Requested In This Program: | 1,650 |
| e. Authorization Included In Following Program: (FY 1995) | 4,100 |
| f. Planned In Next Four Program Years: | 19,931 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 415,231 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 411-135 | UPGRADE POL TANKS | LS | 1,650 | SEP 92 | FEB 93 |
| | | TOTAL: | 1,650 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 113-321 | BOMBER LIVE ORDNANCE LOADING APRON | 49,100 SY | 4,100 | |
| | | TOTAL: | 4,100 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | AIRCRAFT LOADING APRON | 18,300 SY | 3,050 |
| 126-926 | LIQUID FUEL UNLOADING STAND | LS | 470 |
| 141-456 | OPERATIONS FACILITY | 4,000 SF | 3,244 |
| 211-183 | SOUND SUPPRESSOR SUPPORT FACILITY | 1 EA | 850 |
| 890-187 | AIRFIELD LIGHTING VAULT | 3,500 SF | 1,900 |

10. Mission or Major Functions: USAF Fighter Weapons Center; a flying wing that includes the Weapons School (F-15 and F-16 aircraft), an adversary training squadron (Red Flag), a test group (A-10, F-15, and F-16 aircraft), the USAF Air Demonstration Squadron (Thuderbirds), and a combat air rescue squadron (MH-60 helicopters); and a joint training group (Air Warrior).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 4,900 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NELLIS AIR FORCE BASE, NEVADA | UPGRADE POL TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56 | 411-135 | RKMF943004 | 1,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE POL TANKS | LS | | | 1,353 |
| REPAIR 15000 BBL STORAGE TANK | EA | 1 | 459,000 | ( 459) |
| UPGRADE/REPAIR FUEL TANKS | EA | 3 | 195,000 | ( 585) |
| UPGRADE PIPING | LF | 1,500 | 115 | ( 173) |
| SITE REMEDIATION | CY | 340 | 400 | ( 136) |
| SUPPORTING FACILITIES | | | | 70 |
| UTILITIES | LS | | | ( 35) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| SUBTOTAL | | | | 1,423 |
| CONTINGENCY (10%) | | | | 142 |
| TOTAL CONTRACT COST | | | | 1,565 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 94 |
| TOTAL REQUEST | | | | 1,659 |
| TOTAL REQUEST (ROUNDED) | | | | 1,650 |

10. Description of Proposed Construction: Work includes repair to bulk storage tank #30 and existing liquid fuel storage tanks. Remove and repair piping and all supporting systems. Provide all utilities and support as required.

11. REQUIREMENT: As required.

PROJECT: Repair/upgrade existing fuel storage tanks and provide all supporting systems. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. Adequate jet fuel storage and related support facilities are required for the receipt, storage, distribution, and dispensing of fuel products. The repairs and upgrade to bulk fuel storage, and related piping systems are required to eliminate further tank and piping leaks and to meet environmental compliance requirements of 40 CFR 112.7, and Nevada Revised Statute 459.850 which regulate releases of pollutants to the soil, ground and/or surface water.

CURRENT SITUATION: The liquid fuel storage area consists of four above ground tanks constructed in the 1950's. These tanks hold a total of 3,025,000 gallons of fuel (JP-4). The storage area has been assessed under the Installation Restoration Program (IRP). The assessment was undertaken due to an expanding plume of fuel in an underground aquifer, and deficiencies in the containment berm noted in a March 1991 environmental compliance report. Leak testing conducted on Tank #30 indicated that the tank leaked. Ground water monitor wells in the area also indicate tank leakage has occurred. Tank #30 has been taken out of service. Additionally, the Nevada Division of Environmental Protection advised the installation in a 5 March 1992 letter, that the bottoms of tanks #20, 21, and 29 should be replaced as well because they pose an

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

NELLIS AIR FORCE BASE, NEVADA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE POL TANKS | RKMF943004 |

imminent and substantial hazard to the environment (NRS 459.850).
IMPACT IF NOT PROVIDED: The tank farm may be subject to greater regulatory scrutiny because it is located on an Installation Restoration Program (IRP) site. Although regulators have not cited the facility, the potential exists for regulators to declare the facility in violation of a number of environmental regulations. Failure to take corrective action will result in storage tanks which do not meet Federal and State regulatory requirements.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

NELLIS AIR FORCE BASE, NEVADA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE POL TANKS | RKMF943004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 10 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 15 |
| (d) | Date Design Complete | 93 FEB 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 67 |
| (b) | All Other Design Costs | 65 |
| (c) | Total | 132 |
| (d) | Contract | 92 |
| (e) | In-house | 40 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CANNON AIR FORCE BASE, NEW MEXICO | AIR COMBAT COMMAND | 1.10 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 541 | 4178 | 460 | 32 | 17 | 4 | 1 | 1 | | 5,234 |
| b. End FY 1998 | 543 | 4501 | 498 | 32 | 17 | 4 | 1 | 1 | | 5,597 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,818) | |
| b. Inventory Total As Of: (30 SEP 92) | 182,312 |
| c. Authorization Not Yet In Inventory: | 4,100 |
| d. Authorization Requested In This Program: | 8,915 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 21,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 217,227 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 116-665 | SOUND SUPPRESSOR SUPPORT PAD | 1 EA | 665 | JUN 92 | JUL 93 |
| 179-511 | FIRE TRAINING FACILITY | 1 EA | 1,000 | MAY 92 | JUL 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 1,100 | SEP 92 | JAN 94 |
| 610-127 | BASE ENGINEERING COMPLEX | 65,950 SF | 6,150 | MAY 92 | DEC 93 |
| | | TOTAL: | 8,915 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,500 |
| 211-177 | SMALL ACFT MAINTENANCE DOCK | 28,000 SF | 5,000 |
| 211-177 | SMALL AIRCRAFT MAINTENANCE DOCK | 20,500 SF | 4,600 |
| 721-312 | ADD TO AND ALTER DORMITORY | 140 PN | 4,900 |
| 880-232 | FOAM FIRE SYSTEM | LS | 4,900 |

10. Mission or Major Functions: A fighter wing which includes three F-111 fighter squadrons, a fighter training squadron responsible for training all F-111 aircrews, and an electronic combat squadron (EF-111 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 7,500 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CANNON AIR FORCE BASE, NEW MEXICO | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56C | 411-135 | CZQZ943003 | 1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | EA | 38 | 23,890 | 908 |
| SUPPORTING FACILITIES | | | | 40 |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| SUBTOTAL | | | | 948 |
| CONTINGENCY (10%) | | | | 95 |
| TOTAL CONTRACT COST | | | | 1,043 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 63 |
| TOTAL REQUEST | | | | 1,106 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Excavate 38 underground storage tanks (USTs) of 150-10,000 gallon capacity. Remove and dispose of tank sludge residue. Replace 33 with vaulted tanks. Project includes release prevention and detection, corrosion protection, site improvements, paving, remediation of contamination, and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Remove/replace underground storage tanks (USTs). (Current Mission)

REQUIREMENT: This is a level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy base mission requirements. All petroleum dispensing and operating facilities must be provided with a means for detecting and preventing release of pollutants into the surrounding environment. All USTs must be upgraded in accordance with federal law (40 CFR 280.21) by December 1998. This includes leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment.

CURRENT SITUATION: Underground storage tanks at Cannon AFB do not meet federal requirements for corrosion protection, secondary containment, and overfill/spill protection. The condition of these tanks varies with a majority of the tanks at or exceeding their design life. These deficiencies must be corrected to prevent violation of federal UST regulations. If underground storage tanks require replacement, Air Force policy is to replace them with aboveground tanks or relocate them into underground vaults, whenever possible.

IMPACT IF NOT PROVIDED: Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment, along with extremely costly cleanup

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CANNON AIR FORCE BASE, NEW MEXICO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS | | CZQZ943003 |

measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines, and significant adverse publicity.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CANNON AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | CZQZ943003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 92 NOV 25 |
| (d) Date Design Complete | 94 JAN 18 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 66 |
| (b) All Other Design Costs | 22 |
| (c) Total | 88 |
| (d) Contract | 66 |
| (e) In-house | 22 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CANNON AIR FORCE BASE, NEW MEXICO | BASE ENGINEERING COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 610-127 | CZQZ913098 | 6,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEERING COMPLEX | SF | 66,250 | | 4,605 |
| BASE ENGINEER MANAGEMENT/DISASTER PREP | SF | 20,700 | 100 | (2,070) |
| BASE ENGINEER COVERED STORAGE | SF | 17,900 | 50 | ( 895) |
| EXPLOSIVE ORDNANCE DISPOSAL | SF | 4,750 | 80 | ( 380) |
| ADD/ALT MAINTENANCE FACILITY | SF | 22,900 | 55 | (1,260) |
| SUPPORTING FACILITIES | | | | 940 |
| SITE IMPROVEMENTS & PAVEMENTS | LS | | | ( 250) |
| DEMOLISH BUILDINGS & ASBESTOS REMOVAL | SF | 50,000 | 10 | ( 500) |
| UTILITIES | LS | | | ( 190) |
| SUBTOTAL | | | | 5,545 |
| CONTINGENCY (5%) | | | | 277 |
| TOTAL CONTRACT COST | | | | 5,822 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 349 |
| TOTAL REQUEST | | | | 6,171 |
| TOTAL REQUEST (ROUNDED) | | | | 6,150 |

10. Description of Proposed Construction: Concrete foundations, structural steel frames, masonry walls, and sloped roofs. Management area includes offices, conference room, vault storage, and design section. A Contractor Operated Civil Engineer Supply Store (COCESS) is included for covered storage. Asbestos must be removed before demolition.
Air Conditioning: 65 Tons.

11. REQUIREMENT: 90,075 SF ADEQUATE: 16,939 SF SUBSTANDARD: 84,915 SF
PROJECT: Construct a base civil engineering complex. (Current Mission)
REQUIREMENT: Adequate base engineer management and covered storage facilities are required to develop, program, and execute requirements to maintain, repair, operate, and construct facilities, pavements, and utility systems in support of the flying mission. Disaster Preparedness requires adequate space to provide planning, management, training, and operations to prepare all personnel to protect Air Force resources from the effects of attacks and/or disaster situations, restore primary mission assets, and fulfill humanitarian disaster relief responsibilities. Adequate space is required for Explosive Ordnance to perform services on explosives hazardous to operations, facilities, personnel or material. Adequate maintenance facilities are required to support personnel of all trades, to maintain and operate facilities, pavements, and utility systems in support of the base mission.
CURRENT SITUATION: The Civil Engineering functions are presently housed in wood-frame WWII structures and are the first facilities observed by visitors to the base. These facilities are deteriorated and are inadequately heated and cooled. Foundations are failing causing excessive differential settlement. This has resulted in load bearing walls being up to two inches lower than the center of the room. Windows are popping out,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CANNON AIR FORCE BASE, NEW MEXICO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| BASE ENGINEERING COMPLEX | | CZQZ913098 |

and those that stay in are difficult to open or close. The rafter systems are buckling in the roofs causing a "sway back" condition. Wood floors have asbestos tile and are deteriorated which allows small animals into the buildings. Two major facilities were not upgraded since construction in 1944, except for limited fire protection. The room that contains all base facility drawings has no fire protection. A serious fire hazard is created due to an outdated electrical system in this area. The configuration and layout of these facilities has produced a nonfunctional interior arrangement of work areas which hampers communication and productivity. The Air Force has directed Disaster Preparedness and Explosive Ordnance Disposal be incorporated as a functional organization within Civil Engineering. These functions are located in outdated and poorly configured facilities in another area of the installation which further complicates the separation of functions and hampers communication and productivity at the same time reductions in manpower necessitate greater efficiency and productivity. This project demolishes 50,142 SF of substandard space.

IMPACT IF NOT PROVIDED: The Civil Engineering organization will be forced to occupy unsafe, inefficient, and inadequate facilities with functions being geographically separated. The resulting lower productivity potential of this setup adversely affects Cannon's flying mission since the base is heavily dependent upon Civil Engineering's support.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CANNON AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX | CZQZ913098 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 27 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 14 |
| (d) Date Design Complete | 93 DEC 16 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 260 |
| (b) All Other Design Costs | 98 |
| (c) Total | 358 |
| (d) Contract | 260 |
| (e) In-house | 98 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| HOLLOMAN AIR FORCE BASE, NEW MEXICO | AIR COMBAT COMMAND | 1.01 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 555 | 4031 | 976 | 181 | 150 | 12 | 7 | 8 | 61 | 5,981 |
| b. End FY 1998 | 549 | 3993 | 1019 | 181 | 150 | 12 | 7 | 8 | 61 | 5,980 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 58,565) | |
| b. Inventory Total As Of: (30 SEP 92) | 276,483 |
| c. Authorization Not Yet In Inventory: | 84,030 |
| d. Authorization Requested In This Program: | 9,200 |
| e. Authorization Included In Following Program: (FY 1995) | 3,900 |
| f. Planned In Next Four Program Years: | 26,190 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 399,803 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | | 1,000 | NOV 92 | AUG 93 |
| 721-312 | ADD TO AND ALTER DORMITORIES | 296 | PN | 6,400 | JUN 92 | OCT 93 |
| 832-266 | SEWER EFFLUENT SYSTEM | LS | | 1,800 | JUN 92 | JUN 93 |
| | | TOTAL: | | 9,200 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 721-312 | ALTER DORMITORY | 126 | PN | 3,900 |
| | | TOTAL: | | 3,900 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 112-211 | TAXIWAY | 25,750 | SY | 1,540 |
| 130-142 | FIRE/CRASH RESCUE STATION | 5,700 | SF | 1,300 |
| 315-944 | ADD TO AND ALTER WEAPON GUIDANCE LABORATORY | 3,950 | SF | 1,150 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED HSG | 250 | PN | 6,900 |
| 842-245 | UPGRADE UTILITIES, PHASE II | 123,000 | LF | 5,200 |

10. Mission or Major Functions: A fighter wing with three F-117 squadrons one of which is responsible for training all F-117 aircrews, a fighter training group with two AT-38 squadrons, and a combat air rescue detachment (MH-60 helicopters); a mobility support squadron (maintains the Harvest Base kit); an Air Force Materiel Command test group; a German Air Force fighter training squadron (F-4 aircraft); and an Air National Guard fighter interceptor detachment (F-16 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HOLLOMAN AIR FORCE BASE, NEW MEXICO | ADD TO AND ALTER DORMITORIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 721-312 | KWRD933014 | 6,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (296 PN) | SF | 58,200 | | 4,599 |
| ALTERATION | SF | 49,600 | 83 | (4,117) |
| ADDITION | SF | 8,600 | 56 | ( 482) |
| SUPPORTING FACILITIES | | | | 890 |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| PAVEMENTS | LS | | | ( 225) |
| ASBESTOS REMOVAL | SF | 49,600 | 6 | ( 300) |
| COMMUNICATIONS SUPPORT | LS | | | ( 130) |
| UTILITIES | LS | | | ( 210) |
| SUBTOTAL | | | | 5,489 |
| CONTINGENCY (10%) | | | | 549 |
| TOTAL CONTRACT COST | | | | 6,038 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 362 |
| TOTAL REQUEST | | | | 6,400 |
| TOTAL REQUEST (ROUNDED) | | | | 6,400 |

10. Description of Proposed Construction: Alteration of structural, mechanical, and electrical systems including, installation of exterior balconies for entrances to each room; installation of room-bath-room modules; noise attenuation, and asbestos removal. Prewire each room for telephone and cable television. Install new lounge, laundry, and storage areas. Includes all utilities and necessary support.
Air Conditioning: 165 Tons. Grade Mix: 296 E1-E4.

11. REQUIREMENT: 2,068 PN ADEQUATE: 1,196 PN SUBSTANDARD: 676 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, safety, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy, are essential to successfully accomplish the increasingly complicated and critical jobs these people must perform supporting the base mission.
CURRENT SITUATION: These dormitories have received no major upgrades since originally constructed over thirty years ago to standards in effect at the time. These facilities lack privacy and adequate living space per occupant. The dormitories have obsolete electrical and mechanical systems and inadequate lighting, insulation and sound attenuation. The existing fire detection systems do not meet the current standards as set forth in the NFPA Life Safety Code. Before the upgrade, the dormitories will house 288 personnel and after the upgrade will house 296 personnel. This project exceeds 70 percent of the facility replacement cost; however, the economic analysis supports and justifies the decision to add to and alter the existing facility.
IMPACT IF NOT PROVIDED: Substandard living conditions will continue to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HOLLOMAN AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | KWRD933014 |

degrade the morale, productivity and career satisfaction of the enlisted force. Obsolete mechanical and electrical systems, inadequate laundry facilities, insufficient lounge and storage areas will continue to interfere with required rest, relaxation and comfort of dorm residents. Efforts by dorm residents to accomplish daily routine housekeeping requirements will become more difficult as dorms continue to deteriorate resulting in further demoralization of the residents.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HOLLOMAN AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | KWRD933014 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 18 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 18 |
| (d) Date Design Complete | 93 OCT 26 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | HOLLOMAN |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 145 |
| (b) All Other Design Costs | 110 |
| (c) Total | 255 |
| (d) Contract | 65 |
| (e) In-house | 190 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HOLLOMAN AIR FORCE BASE, NEW MEXICO | SEWER EFFLUENT SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56C | 832-266 | KWRD943012 | 1,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SEWER EFFLUENT SYSTEM | LF | 22,900 | 66 | 1,511 |
| SUPPORTING FACILITIES | | | | 95 |
| DEMOLITION | LS | | | ( 85) |
| SITE WORK | LS | | | ( 10) |
| SUBTOTAL | | | | 1,606 |
| CONTINGENCY (5%) | | | | 80 |
| TOTAL CONTRACT COST | | | | 1,686 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 101 |
| TOTAL REQUEST | | | | 1,787 |
| TOTAL REQUEST (ROUNDED) | | | | 1,800 |

10. Description of Proposed Construction: Install 8" sewer pipeline, concrete manholes with cast iron covers, and lift stations. Demolition and removal along with disposal of existing septic tanks is required.

11. REQUIREMENT: As required.

PROJECT: Install a sewer effluent system. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. An adequate sewer effluent system is required to replace the existing septic tanks at the Test Track Area of Holloman AFB, NM. The system is required to convey industrial waste and sewage to the base treatment plant. The system will meet state and federal regulations for wastewater effluent.

CURRENT SITUATION: Wastewater and industrial waste are collected at the Test Track Area and fed into septic tank systems. These systems drain into leachfields in the vicinity of the Lost River, which is a known natural habitat of the endangered Pupfish.

IMPACT IF NOT PROVIDED: The existing septic system results in the introduction of contaminants into a protected species habitat. Although regulators have not cited the installation, the potential exists for regulators to enforce environmental quality regulations associated with the Endangered Species Act, which could result in mandated restoration like that currently underway at the installation's sewage lagoon.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HOLLOMAN AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SEWER EFFLUENT SYSTEM | KWRD943012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUN 18 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 SEP 17 |
| (d) | Date Design Complete | 93 JUN 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 47 |
| (b) | All Other Design Costs | 126 |
| (c) | Total | 173 |
| (d) | Contract | 47 |
| (e) | In-house | 126 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | AIR FORCE MATERIEL COMMAND | 0.92 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1227 | 3213 | 2249 | 101 | 262 | 101 | 89 | 170 | 120 | 7,532 |
| b. End FY 1998 | 1350 | 2850 | 2321 | 101 | 262 | 101 | 89 | 170 | 120 | 7,364 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 44,025) | |
| b. Inventory Total As Of: (30 SEP 92) | 417,715 |
| c. Authorization Not Yet In Inventory: | 14,800 |
| d. Authorization Requested In This Program: | 27,061 |
| e. Authorization Included In Following Program: (FY 1995) | 15,600 |
| f. Planned In Next Four Program Years: | 74,690 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 549,866 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|---|
| 310-919 | AEROSPACE ENGINEERING FACILITY | 14,000 | SF | 3,167 | AUG 92 | SEP 93 |
| 312-477 | SPACE STRUCTURES LABORATORY | 31,900 | SF | 6,200 | AUG 92 | OCT 93 |
| 312-477 | COMPOSITE MATERIALS LABORATORY | 30,000 | SF | 5,750 | SEP 92 | OCT 93 |
| 721-312 | ALTER DORMITORY | 280 | PN | 5,100 | OCT 92 | OCT 93 |
| 813-231 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | | LS | 6,844 | JUL 92 | SEP 93 |
| | | TOTAL: | | 27,061 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 171-212 | SIMULATOR TRAINING FACILITY | 51,700 | SF | 9,000 |
| 318-614 | SOLAR/ELECTRIC LABORATORY | 13,200 | SF | 2,200 |
| 411-135 | IMPROVE JET FUEL STORAGE | | LS | 4,400 |
| | | TOTAL: | | 15,600 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 179-511 | FIREMEN TRAINING FACILITY | | LS | 1,040 |
| 318-614 | ALTER EXPLOSIVES STORAGE SITE PHASE II | | LS | 2,400 |
| 721-312 | ALTER UNACCOMPANIED ENLISTED HSG | 250 | PN | 4,000 |
| 740-674 | ADD TO AND ALTER PHYSICAL FITNESS CENTER | 16,330 | SF | 1,500 |
| 740-884 | CHILD DEVELOPMENT CENTER | 23,000 | SF | 2,800 |

10. Mission or Major Functions: Phillips Laboratory; the Air Force Operational Test and Evaluation Center; an Air Training Command crew training wing with two flying training squadrons (MH-53, TH-53, UH-1, and HH-3 helicopters, and MC-130 and HC-130 aircraft); Air Force Security Police Agency; and an Air National Guard fighter group (F-16 aircraft). Major tenants include Naval Weapons Evaluation Facility and Sandia National Laboratory.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | AIR FORCE MATERIEL COMMAND | 0.92 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | AEROSPACE ENGINEERING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.23.02 | 310-919 | MHMV943022 | 3,167 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AEROSPACE ENGINEERING FACILITY | SF | 16,000 | 135 | 2,160 |
| SUPPORTING FACILITIES | | | | 630 |
| UTILITIES | LS | | | ( 270) |
| COMMUNICATIONS SUPPORT | LS | | | ( 160) |
| SITE IMPROVEMENTS | LS | | | ( 200) |
| SUBTOTAL | | | | 2,790 |
| CONTINGENCY (5%) | | | | 140 |
| TOTAL CONTRACT COST | | | | 2,930 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 176 |
| TOTAL REQUEST | | | | 3,106 |
| TOTAL REQUEST (ROUNDED) | | | | 3,167 |

10. Description of Proposed Construction: Construct a laboratory with a high bay (40 feet), bridge crane, special isolation floor slab for the shaker pit, clean room, control room, staging area and loading dock. Provide 750 KVA of electric power, other utilities and necessary support. Air Conditioning: 50 Tons.

11. REQUIREMENT: 16,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an aerospace engineering facility. (New Mission)

REQUIREMENT: The facility is required for development, integration, and testing of components and complete space flight payloads. It must be equipped to measure the response of payloads to mechanical vibrations and shock, acceleration, thermal, and thermal-vacuum tests. The researchers and contractors operate integrated payloads in a dress rehearsal of sounding rocket, balloon, and orbiting spacecraft flight. This facility provides a realistic test environment for payloads sent aloft by balloons and rocket boosters.

CURRENT SITUATION: Currently, this function is located at Hanscom Air Force Base. The geographic separation from Phillips Lab at Kirtland Air Force Base inhibits the integration of space research experiments. The objective of the Phillips Lab consolidation is to collocate all space research at Kirtland AFB.

IMPACT IF NOT PROVIDED: The ability to execute integrated and timely space experiments will not be possible if this facility is not collocated at Kirtland AFB.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AEROSPACE ENGINEERING FACILITY | MHMV943022 |

requirements besides new construction and consolidation of this facility at Kirtland AFB; therefore, no economic analysis was performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AEROSPACE ENGINEERING FACILITY | MHMV943022 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 04 |
| (d) Date Design Complete | 93 SEP 03 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 192 |
| (b) All Other Design Costs | 103 |
| (c) Total | 295 |
| (d) Contract | 4 |
| (e) In-house | 291 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | COMPOSITE MATERIALS LABORATORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.23.02 | 312-477 | MHMV943017 | 5,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| COMPOSITE MATERIALS LABORATORY | SF | 30,000 | 160 | 4,800 |
| SUPPORTING FACILITIES | | | | 345 |
| UTILITIES | LS | | | ( 130) |
| COMMUNICATIONS SUPPORT | LS | | | ( 130) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| SUBTOTAL | | | | 5,145 |
| CONTINGENCY (5%) | | | | 257 |
| TOTAL CONTRACT COST | | | | 5,402 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 324 |
| TOTAL REQUEST | | | | 5,726 |
| TOTAL REQUEST (ROUNDED) | | | | 5,750 |

10. Description of Proposed Construction: Reinforced concrete foundation with special isolation floor slabs. Structural steel frame with a metal deck roofing system; zoned heating, ventilation, and air conditioning system, pre-wired communications systems and EMCS connections. Provide 3000 SF covered storage shelter.
Air Conditioning: 75 Tons.

11. REQUIREMENT: 30,000 SF ADEQUATE: 0 SUBSTANDARD: 33,600 SF
PROJECT: Construct a composite materials laboratory. (New Mission)
REQUIREMENT: Provide laboratory space to conduct research into advanced materials (composites) used for space/missile structures. This facility will house large composite material fabrication equipment, such as filament winding machines, high temperature processing and curing machines, and machines used for non-destructive tests on the fabricated materials. A storage area is needed to store hydrogen, nitrogen, and propane with a pumping system, flare stack, and a cooling tower.
CURRENT SITUATION: The existing composite laboratory is located at Edwards AFB, CA. The objective of the Phillips Laboratory consolidation is to collocate all space research facilities at Kirtland AFB. The existing lab was constructed in the early 1960's for NASA to fabricate and test Saturn rocket motors. It has been modified and altered in an effort to make it suitable for composite work. The existing 33,600 square foot facility would require $3 million worth of repairs to support continued occupancy.
IMPACT IF NOT PROVIDED: The integrated development of space systems will not occur due to the large geographic separation of the laboratory facilities.
ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| COMPOSITE MATERIALS LABORATORY | MHMV943017 |

Military Handbook 1190, "Facility Planning and Design Guide" or in AFM 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission requirements besides consolidation and new construction of this facility at Kirtland Air Force Base; therefore, no economic analysis was performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| COMPOSITE MATERIALS LABORATORY | MHMV943017 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 OCT 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 354 |
| (b) All Other Design Costs | 108 |
| (c) Total | 462 |
| (d) Contract | 54 |
| (e) In-house | 408 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | SPACE STRUCTURES LABORATORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 6.23.02 | 312-477 | MHMV943018 | 6,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SPACE STRUCTURES LABORATORY | SF | 31,900 | 165 | 5,264 |
| SUPPORTING FACILITIES | | | | 280 |
| UTILITIES | LS | | | ( 120) |
| COMMUNICATIONS SUPPORT | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 5,544 |
| CONTINGENCY (5%) | | | | 277 |
| TOTAL CONTRACT COST | | | | 5,821 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 349 |
| TOTAL REQUEST | | | | 6,170 |
| TOTAL REQUEST (ROUNDED) | | | | 6,200 |

10. Description of Proposed Construction: Reinforced concrete foundation with special isolation floor slabs in the laboratory areas, steel structural frame with a stucco/concrete slab exterior finish. Project includes communications pre-wiring, EMCS connections and necessary support.
Air Conditioning: 75 Tons.

11. REQUIREMENT: 31,900 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a space structures laboratory. (New Mission)
REQUIREMENT: Provide a facility to support the space structures experiments, which are needed to provide vital information regarding spacecraft structural configuration, control, weight reduction, and structural vibration damping. This research incorporates advanced composite materials into spacecraft and ballistic missile systems. The space structures laboratory must be collocated with the composite materials lab to fulfill the intent of the Phillips Laboratory consolidation. Test equipment that vibrates spacecraft structural experiments needs to be mounted on isolation floor slabs to minimize vibrating other experiments and the rest of the facility. The large size of the test equipment and the tested structural systems requires large lab rooms with high ceilings.
CURRENT SITUATION: The existing space structures laboratory is contained in five separate facilities, totaling 44,500 SF at Edwards Air Force Base and 5,859 SF at Kirtland Air Force Base. The existing laboratory facilities at Edwards AFB are approaching 40 years old and have deteriorated with age. The existing laboratories are cramped and improperly configured for experiment control, and are not conducive to sharing technologies between the various disciplines involved in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SPACE STRUCTURES LABORATORY | MHMV943018 |

spacecraft structures. The objective of the Phillips Lab consolidation is to collocate all space research facilities at Kirtland AFB.
IMPACT IF NOT PROVIDED: Spacecraft structural experiments will not be properly integrated if this facility is not collocated with its related technologies. Structural research for such experiments as the Space Based Radar and the Advanced Structure Technology Research Experiment will not occur in a timely and effective manner.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SPACE STRUCTURES LABORATORY | MHMV943018 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 24 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 04 |
| (d) Date Design Complete | 93 OCT 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 384 |
| (b) All Other Design Costs | 142 |
| (c) Total | 526 |
| (d) Contract | 86 |
| (e) In-house | 440 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | ALTER DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | MHMV943000 | 5,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER DORMITORY (250 PN) | SF | 56,000 | 66 | 3,696 |
| SUPPORTING FACILITIES | | | | 690 |
| UTILITIES | LS | | | ( 255) |
| PAVEMENTS | LS | | | ( 225) |
| SITE IMPROVEMENTS | LS | | | ( 210) |
| SUBTOTAL | | | | 4,386 |
| CONTINGENCY (10%) | | | | 439 |
| TOTAL CONTRACT COST | | | | 4,825 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 290 |
| TOTAL REQUEST | | | | 5,115 |
| TOTAL REQUEST (ROUNDED) | | | | 5,100 |

10. Description of Proposed Construction: All electrical, mechanical, and structural work necessary to upgrade dorm to acceptable standards of livability. Install semi-private baths, balconies, and improve safety, building maintainability and energy conservation features.
Grade Mix: 250 E1-E4.

11. REQUIREMENT: 1,794 PN ADEQUATE: 1,479 PN SUBSTANDARD: 467 PN
PROJECT: Alter dormitory. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The existing dormitory is over 40 years old. Inefficiencies include central latrines, inadequate lighting, poor insulation and sound attenuation and obsolete electrical and mechanical systems. Dorm occupancy rate is 100 percent. This is phase four of a five phase program to provide adequate dormitories at Kirtland.
IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to degrade the morale, productivity and career satisfaction of the enlisted force.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER DORMITORY | MHMV943000 |

Guide". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER DORMITORY | MHMV943000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 OCT 22 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 01 |
| (d) | Date Design Complete | 93 OCT 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 310 |
| (b) | All Other Design Costs | 158 |
| (c) | Total | 468 |
| (d) | Contract | |
| (e) | In-house | 468 |
| (4) | Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 813-231 | MHMV923008 | 6,844 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LS | | | 5,650 |
| UPGRADE ELECTRIC SUBSTATIONS | EA | 3 | 200,000 | (3,600) |
| OVERHEAD DISTRIBUTION LINES | LF | 20,000 | 15 | ( 300) |
| TRANSFORMERS SINGLE PHASE | EA | 20 | 5,000 | ( 100) |
| TRANSFORMERS THREE PHASE | EA | 150 | 11,000 | (1,650) |
| SUPPORTING FACILITIES | | | | 225 |
| SITE IMPROVEMENTS (PAD REPLACEMENT) | LS | | | ( 225) |
| SUBTOTAL | | | | 5,875 |
| CONTINGENCY (10%) | | | | 588 |
| TOTAL CONTRACT COST | | | | 6,463 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 388 |
| TOTAL REQUEST | | | | 6,851 |
| TOTAL REQUEST (ROUNDED) | | | | 6,844 |

10. Description of Proposed Construction: Upgrade substations 23, 24 and 25; 20 single phase transformers, 150 three phase transformers. Replace associated electrical distribution lines. Site improvements include replacing concrete substation and transformer pads, replacing security barriers around substations and transformers and trenching under roadways.

11. REQUIREMENT: As required.

PROJECT: Upgrade electrical distribution system. (Current Mission)

REQUIREMENT: An adequate base electrical distribution system is required to support operation and maintenance of base facilities and functions.

CURRENT SITUATION: The existing westside base electrical distribution system has been in existance since early 1950's. Electrical power is commercially furnished. Due to the growth on the west side of Kirtland supporting the Crew Training Wing operations and Phillips Laboratory, the existing 5KV system substation transformers and feeders are now at or near full capacity. The ability to backfeed for system maintenance or emergencies no longer exist. The lower voltage 5KV system is obsolete and increasingly difficult to support (i.e. transformers, switchgear, etc). Upgrade from 5 to 15KV increases system feeder capacity approximately three times and installs a long term supportable system without having to replace or increase the size of the overhead and underground distribution system. Installing larger substation transformers increases system capacity to meet current/future needs and provides a system which is maintainable with minimum inconvenience to customers.

IMPACT IF NOT PROVIDED: Operation and maintenance of base functions and activities could be seriously impacted which would be detrimental to the base's ability to perform its mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | MHMV923008 |

Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project, status quo, and upgrade was done. It indicates that the only option that will satisfy opeational requirements is to upgrade the existing electrical distribution system. Because of this, a full economic analysis was not performed. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | MHMV923008 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 23 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 01 |
| (d) Date Design Complete | 93 SEP 24 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 64 |
| (b) All Other Design Costs | 299 |
| (c) Total | 363 |
| (d) Contract | 64 |
| (e) In-house | 299 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| POPE AIR FORCE BASE, NORTH CAROLINA | AIR COMBAT COMMAND | 0.80 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 672 | 4017 | 449 | 23 | 46 | 48 | 9 | 157 | 43 | 5,464 |
| b. End FY 1998 | 422 | 3697 | 365 | 23 | 46 | 48 | 9 | 157 | 43 | 4,810 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 1,890) | |
| b. Inventory Total As Of: (30 SEP 92) | 108,343 |
| c. Authorization Not Yet In Inventory: | 28,680 |
| d. Authorization Requested In This Program: | 8,600 |
| e. Authorization Included In Following Program: (FY 1995) | 11,950 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 157,573 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORIES | 192 PN | 4,300 | NOV 92 | JAN 94 |
| 722-351 | DINING FACILITY | 26,200 SF | 4,300 | NOV 92 | DEC 93 |
| | | TOTAL: | 8,600 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 112-211 | ADD TO TAXIWAY ALPHA | 39,800 SY | 4,050 |
| 136-661 | AIRCRAFT PARKING APRON LIGHTING | LS | 1,500 |
| 179-511 | FIREMEN TRAINING FACILITY | 500 SF | 900 |
| 211-159 | AIRCRAFT CORROSION CONTROL FACILITY | 40,000 SF | 5,500 |
| | | TOTAL: | 11,950 |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A composite wing which includes one A/OA-10 squadron and one C-130 squadron; and an Air Mobility Command airlift wing with two C-130 squadrons and the USAF Mobility Center. The composite wing will also include an F-16 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| POPE AIR FORCE BASE, NORTH CAROLINA | ADD TO AND ALTER DORMITORIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 721-312 | TMKH943006 | 4,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (250 PN) | SF | 50,500 | | 2,601 |
| ALTERATION | SF | 43,500 | 54 | (2,349) |
| ADDITION | SF | 7,000 | 36 | ( 252) |
| SUPPORTING FACILITIES | | | | 1,090 |
| SITE IMPROVEMENTS | LS | | | ( 210) |
| PAVEMENTS | LS | | | ( 225) |
| DEMOLITION/ASBESTOS REMOVAL | SF | 43,500 | 4 | ( 175) |
| UTILITIES | LS | | | ( 320) |
| AREA DEVELOPMENT | LS | | | ( 160) |
| SUBTOTAL | | | | 3,691 |
| CONTINGENCY (10%) | | | | 369 |
| TOTAL CONTRACT COST | | | | 4,060 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 244 |
| TOTAL REQUEST | | | | 4,304 |
| TOTAL REQUEST (ROUNDED) | | | | 4,300 |

10. Description of Proposed Construction: Alteration of structural, mechanical, and electrical systems including, installation of exterior balconies for entrances to each room; installation of room-bath-room modules; noise attenuation, and asbestos removal. Prewire each room for telephone and cable television. Includes safety and energy conservation features. Includes all utilities and necessary support.
Air Conditioning: 100 Tons. Grade Mix: 250 E1-E4.

11. REQUIREMENT: 1,503 PN ADEQUATE: 408 PN SUBSTANDARD: 952 PN
PROJECT: Add to and alter two dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, safety, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy, are essential to successfully accomplish the increasingly complicated and critical jobs these people must perform supporting the base mission.
CURRENT SITUATION: These dormitories have received no major upgrades since originally constructed over twenty years ago to standards in effect at the time. These facilities lack privacy and adequate living space per occupant. The dormitories have obsolete electrical and mechanical systems and inadequate lighting, insulation and sound attenuation. The existing fire detection systems do not meet the current standards as set forth in the NFPA Life Safety Code.
IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted force. Obsolete mechanical and electrical systems, inadequate laundry facilities, insufficient lounge and storage areas will continue to interfere with required rest, relaxation and comfort of dorm residents.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | TMKH943006 |

Efforts by dorm residents to accomplish daily routine housekeeping requirements will become more difficult as dorms continue to deteriorate resulting in further demoralization of the residents.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | TMKH943006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 94 JAN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 224 |
| (b) All Other Design Costs | 84 |
| (c) Total | 308 |
| (d) Contract | 224 |
| (e) In-house | 84 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| POPE AIR FORCE BASE, NORTH CAROLINA | DINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 722-351 | TMKH943007 | 4,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DINING FACILITY | SF | 22,900 | | 2,755 |
| DINING HALL | SF | 18,900 | 125 | (2,363) |
| POSTAL SERVICE CENTER | SF | 2,000 | 98 | ( 196) |
| LINEN EXCHANGE | SF | 2,000 | 98 | ( 196) |
| SUPPORTING FACILITIES | | | | 1,090 |
| UTILITIES | LS | | | ( 260) |
| PAVEMENTS | LS | | | ( 195) |
| SITE IMPROVEMENTS | LS | | | ( 185) |
| DEMOLITION | SF | 13,200 | 34 | ( 450) |
| SUBTOTAL | | | | 3,845 |
| CONTINGENCY (5%) | | | | 192 |
| TOTAL CONTRACT COST | | | | 4,037 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 242 |
| TOTAL REQUEST | | | | 4,279 |
| TOTAL REQUEST (ROUNDED) | | | | 4,300 |

10. Description of Proposed Construction: Reinforced concrete slab, brick exterior, and standing seam metal roof. Facility includes dining area, serving line, kitchen, dishwashing area, bakery, refrigerated and non-perishable storage, latrines, offices, receiving area, postal service center, and linen exchange areas. Includes all utilities and required support.
Air Conditioning: 110 Tons.

11. REQUIREMENT: 22,900 SF ADEQUATE: 0 SUBSTANDARD: 18,613 SF
PROJECT: Construct an airman dining facility to include an area for a postal service center and linen exchange. (Current Mission)
REQUIREMENT: Adequately sized and configured dining facility to properly feed assigned and transient unaccompanied personnel. Must provide space for food preparation, dishwashing equipment, dining, and food storage. An area is also required for linen exchange and for the Postal Service Center. By consolidating the dining facility, Postal Service Center, and linen exchange, economies of scale can be realized, resulting in reduction of utility costs and maintenance requirements that would have accompanied construction of individual facilities. Demolish 13,177 square foot existing dining facility.
CURRENT SITUATION: The existing dining facility is substandard and beyond economical repair. The 1955 facility has extensive utility and structural problems. The plumbing/sewage has failed on numerous occasions and is presently being held together with temporary repairs to allow the dining facility to continue operating. The electrical system is severely deteriorated. It is difficult and expensive to maintain the system due to the lack of replacement parts and their high cost. The HVAC system is approximately 20 years old and provides a continuous source of maintenance

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| POPE AIR FORCE BASE, NORTH CAROLINA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| DINING FACILITY | | TMKH943007 |

problems. Food preparation workers are frequently working in an environment where temperatures exceed 100 degrees Fahrenheit and there is little ventilation. The roof system has failed, and complete replacement is required. Also, the loading dock is inadequate and causes inefficient handling of supplies. Storage space is inadequate. One freezer unit sits outside on the loading dock due to insufficient indoor space. The linen exchange function and postal service center are located in facilities constructed in 1953 and 1942 respectively. These old facilities are inadequate for providing postal service and linen exchange to the enlisted force.

IMPACT IF NOT PROVIDED: Food service and preparation will continue to be inefficient due to facility inadequacies. The poor accommodations the dining area offers to the enlisted force will continue to degrade morale.

ADDITIONAL: This project meets the scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DINING FACILITY | TMKH943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 DEC 13 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 264 |
| (b) All Other Design Costs | 88 |
| (c) Total | 352 |
| (d) Contract | 264 |
| (e) In-house | 88 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA | AIR COMBAT COMMAND | 0.80 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 564 | 4123 | 532 | | 16 | | | | | 5,235 |
| b. End FY 1998 | 534 | 3925 | 553 | | 16 | | | | | 5,028 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 41,157) | |
| b. Inventory Total As Of: (30 SEP 92) | 176,848 |
| c. Authorization Not Yet In Inventory: | 18,230 |
| d. Authorization Requested In This Program: | 5,380 |
| e. Authorization Included In Following Program: (FY 1995) | 6,290 |
| f. Planned In Next Four Program Years: | 11,100 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 217,848 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 610-144 | MUNITIONS MAINTENANCE SUPPORT FACILITY | 3,250 SF | 480 | OCT 92 | APR 93 |
| 721-312 | ADD TO AND ALTER DORMITORIES | 304 PN | 4,900 | DEC 92 | JUN 93 |
| | | TOTAL: | 5,380 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 411-134 | UNDERGROUND FUEL STORAGE TANKS | LS | 360 |
| 722-351 | DINING HALL AND TROOP ISSUE WAREHOUSE | 26,200 SF | 4,430 |
| 871-183 | STORM DRAINAGE DISPOSAL | LS | 1,500 |
| | | TOTAL: | 6,290 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 218-712 | ACFT SPRT EQUIP SHOP/STORAGE | LS | 3,500 |
| 411-135 | JET FUEL STORAGE | 4,000 SY | 900 |
| 730-142 | ADD TO FIRE STATION | 5,500 SF | 1,000 |
| 730-441 | EDUCATION/LEARNING CENTER | 25,700 SF | 4,200 |
| 740-443 | TRANSIENT LODGING FACILITY | 31 UN | 1,500 |

10. Mission or Major Functions: A flying wing which includes three fighter squadrons (F-15 aircraft) and two air refueling squadrons (KC-10 aircraft); an Air Force Reserve KC-10 associate air refueling group; and an Air National Guard fighter interceptor detachment (F-16 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 360 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA | ADD TO AND ALTER DORMITORIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 721-312 | VKAG943003 | 4,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (304 PN) | SF | 59,100 | | 3,217 |
| ALTERATION | SF | 50,500 | 54 | (2,727) |
| ADDITION (BALCONIES) | SF | 8,600 | 57 | ( 490) |
| SUPPORTING FACILITIES | | | | 995 |
| UTILITIES (INCL REPL CENTRAL CHILLER) | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 120) |
| PAVEMENTS | SY | 4,450 | 44 | ( 195) |
| ASBESTOS REMOVAL | LS | | | ( 670) |
| SUBTOTAL | | | | 4,212 |
| CONTINGENCY (10%) | | | | 421 |
| TOTAL CONTRACT COST | | | | 4,633 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 278 |
| TOTAL REQUEST | | | | 4,911 |
| TOTAL REQUEST (ROUNDED) | | | | 4,900 |

10. Description of Proposed Construction: Alteration of structural, mechanical, and electrical systems, including: installation of exterior entrances to each room, safety and energy conservation features, noise attenuation, and asbestos removal. Prewire each room for telephone and cable television. Includes all utilities and necessary support. Air Conditioning: 100 Tons. Grade Mix: 304 E1-E4.

11. REQUIREMENT: 1,520 PN ADEQUATE: 608 PN SUBSTANDARD: 608 PN
PROJECT: Add to and alter two dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, safety, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: These dormitories have received no major upgrade work since they were built over thirty years ago to the standards in effect at that time. They lack privacy, adequate living space per occupant, and individual room temperature controls. They have inadequate lighting, minimal fire protection, poor insulation and sound attenuation, and obsolete electrical and mechanical systems. They have dark narrow hallways with low ceilings (due to design of the mechanical system) and exposed conduit in the hallways and rooms. This project exceeds 70 percent of the facility replacement cost; however, the economic analysis supports and justifies the decision to add to and alter the existing facility.
IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES | | VKAG943003 |

force.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | VKAG943003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 DEC 04 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 11 |
| (d) Date Design Complete | | 93 JUN 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 220 |
| (b) All Other Design Costs | | 80 |
| (c) Total | | 300 |
| (d) Contract | | 200 |
| (e) In-house | | 100 |
| (4) Construction Start | | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| GRAND FORKS AIR FORCE BASE, NORTH DAKOTA | AIR COMBAT COMMAND | 0.96 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 680 | 4154 | 471 | | | | | | | 5,305 |
| b. End FY 1998 | 634 | 3662 | 457 | | | | | | | 4,753 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,777) | |
| b. Inventory Total As Of: (30 SEP 92) | 301,361 |
| c. Authorization Not Yet In Inventory: | 19,750 |
| d. Authorization Requested In This Program: | 2,600 |
| e. Authorization Included In Following Program: (FY 1995) | 20,600 |
| f. Planned In Next Four Program Years: | 29,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 374,211 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | CMPL |
|---|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | | LS | 2,600 | MAY 92 | JAN 93 |
| | | TOTAL: | | 2,600 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 111-111 | UPGRADE AIRFIELD PAVEMENTS | 43,000 | SY | 10,200 |
| 130-835 | SECURITY POLICE OPERATIONS | 31,500 | SF | 5,300 |
| 411-000 | UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES | 33 | EA | 4,100 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,000 |
| | | TOTAL: | | 20,600 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 111-111 | UPGRADE RUNWAY | | LS | 5,000 |
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | | LS | 4,200 |
| 610-128 | SUPPORT OPERATIONS CENTER | 80,021 | SF | 7,900 |
| 690-000 | PROCUREMENT FACILITY | 8,500 | SF | 1,400 |
| 831-155 | INDUSTRIAL WASTEWATER TREATMENT FACILITIES | | LS | 5,000 |

10. Mission or Major Functions: A bomb wing which includes one B-1 squadron; a missile wing consisting of three Minuteman intercontinental ballistic missile squadrons which maintain a continuous alter posture; a combat air rescue detachment with HH-1 helicopters; and an Air Mobility Command refueling squadron (KC-135 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 16,050 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GRAND FORKS AIR FORCE BASE, NORTH DAKOTA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.56C | 411-135 | JFSD932502 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 2,228 |
| REPLACE UNDERGROUND STORAGE TANKS | EA | 24 | 68,210 | (1,637) |
| UPGRADE UNDERGROUND STORAGE TANKS | EA | 9 | 65,670 | ( 591) |
| SUBTOTAL | | | | 2,228 |
| CONTINGENCY (10%) | | | | 223 |
| TOTAL CONTRACT COST | | | | 2,451 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 147 |
| TOTAL REQUEST | | | | 2,598 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Excavate/remove 24 underground storage tanks. Dispose of tank residue and test soil at each site. Remove/dispose of contaminated soil. Replace tanks with new double-walled tanks, interstitial leak detectors, double-wall piping and spill/overfill protectors. Upgrade 9 tanks with leak detectors, double-wall piping, corrosion, spill, overflow protection and epoxy lining. Tightness test.

11. REQUIREMENT: As required.

PROJECT: Replace/upgrade underground storage tanks (USTs) at missile launch and launch control facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. All regulated USTs must be upgraded in accordance with Federal Law (40 CFR 280.21) by December 1998. The Law also requires that underground tanks have leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment.

CURRENT SITUATION: Underground storage tanks at Grand Forks AFB do not meet Federal regulatory requirements for corrosion protection, leak detection monitoring, and overfill/spill protection. These deficiencies must be corrected to prevent violation of Federal UST regulations. This project is the first of four phases, and will replace/upgrade 33 USTs. Unit costs for this project are higher than other locations due to the deep buried nature of the tanks.

IMPACT IF NOT PROVIDED: Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment along with extremely costly cleanup measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to Notices of Violation, fines and significant adverse

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| GRAND FORKS AIR FORCE BASE, NORTH DAKOTA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS | | JFSD932502 |

accomplished by the established deadline, the base will be in violation of the law and subject to Notices of Violation, fines and significant adverse publicity.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | JFSD932502 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 27 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 JUL 27 |
| (d) Date Design Complete | 93 JAN 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 135 |
| (b) All Other Design Costs | 89 |
| (c) Total | 224 |
| (d) Contract | 168 |
| (e) In-house | 56 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| MINOT AIR FORCE BASE, NORTH DAKOTA | AIR COMBAT COMMAND | 1.07 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 753 | 4285 | 578 | | 22 | | | | | 5,638 |
| b. End FY 1998 | 680 | 3847 | 568 | | 22 | | | | | 5,117 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,385) | |
| b. Inventory Total As Of: (30 SEP 92) | 292,102 |
| c. Authorization Not Yet In Inventory: | 16,200 |
| d. Authorization Requested In This Program: | 2,000 |
| e. Authorization Included In Following Program: (FY 1995) | 9,975 |
| f. Planned In Next Four Program Years: | 53,950 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 374,227 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | | LS | 2,000 | NOV 92 | MAY 93 |
| | | | TOTAL: | 2,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 130-142 | FIRE/CRASH RESCUE STATION | 20,500 | SF | 4,000 |
| 411-000 | UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES | 39 | EA | 1,950 |
| 411-135 | UPGRADE POL DIKES AND BASINS | | LS | 1,425 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | | LS | 1,100 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,500 |
| | | TOTAL: | | 9,975 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 112-211 | UPGRADE TAXIWAY (PH 1) | LS | 12,600 |
| 112-211 | UPGRADE TAXIWAY (PH 2) | LS | 10,000 |
| 113-321 | UPGRADE AIRCRAFT PARKING APRON | LS | 3,800 |
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | LS | 15,700 |
| 211-175 | NOST DOCK FIRE SUPPRESSION SYSTEM | LS | 3,400 |

10. Mission or Major Functions: A bomb wing which includes one B-52 squadron; a missile wing consisting of three Minuteman intercontinental ballistic missile squadrons which maintain a continuous alter posture; a combat air rescue detachment with HH-1 helicopters; and an Air Mobility Command air refueling squadron (KC-135 aircraft).

11. Outatanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 13,825 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MINOT AIR FORCE BASE, NORTH DAKOTA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.56C | 411-135 | QJVF952500 | 1,950 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,560 |
| REPLACE UNDERGROUND STORAGE TANKS | EA | 39 | 40,000 | (1,560) |
| SUPPORTING FACILITIES | | | | 130 |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 1,690 |
| CONTINGENCY (10%) | | | | 169 |
| TOTAL CONTRACT COST | | | | 1,859 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 112 |
| TOTAL REQUEST | | | | 1,971 |
| TOTAL REQUEST (ROUNDED) | | | | 1,950 |

10. Description of Proposed Construction: Excavate/remove 39 underground storage tanks. Dispose of tank residue and test soil at each site. Remove/dispose of contaminated soil. Replace tanks with new double-walled tanks, interstitial leak detectors, double-wall piping, and spill/overfill protectors. Project includes all necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade/replace underground storage tanks (USTs) at missile launch and launch control facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy wing mission requirements. All petroleum dispensing and operating facilities must be provided with positive means for preventing release of pollutants into the surrounding environment. All regulated USTs must be upgraded in accordance with Federal Law (40 CFR 280.21) by December 1998. The law also requires underground tanks have leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment.

CURRENT SITUATION: Underground storage tanks at Minot AFB do not meet federal (40 CFR 280) and state requirements for corrosion protection, leak detection monitoring, and overfill/spill protection. Replacement is required to assure environmental compliance. This is the first phase of a four-phase effort.

IMPACT IF NOT PROVIDED: Failure to replace these tanks will result in an unacceptable risk of pollution. Additionally, Minot AFB will not be in compliance with federal and state environmental requirements thereby subjecting the base to enforcement action and monetary penalties.

ADDITIONAL: There is no criteria/scope for this project in Part II of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MINOT AIR FORCE BASE, NORTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | QJVF952500 |

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MINOT AIR FORCE BASE, NORTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | QJVF952500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 01 |
| (d) Date Design Complete | | 93 MAY 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 89 |
| (b) All Other Design Costs | | |
| (c) Total | | 89 |
| (d) Contract | | 79 |
| (e) In-house | | 10 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | AIR FORCE MATERIEL COMMAND | 1.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 4438 | 3655 | 15936 | 342 | | | | | | 24,371 |
| b. End FY 1998 | 2925 | 1980 | 10135 | 342 | | | | | | 15,382 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 8,245) | |
| b. Inventory Total As Of: (30 SEP 92) | 773,201 |
| c. Authorization Not Yet In Inventory: | 61,770 |
| d. Authorization Requested In This Program: | 27,650 |
| e. Authorization Included In Following Program: (FY 1995) | 38,200 |
| f. Planned In Next Four Program Years: | 81,200 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 982,021 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 310-932 | ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | 60,000 SF | 5,650 | JUN 92 | DEC 93 |
| 311-173 | ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II | LS | 12,850 | AUG 92 | DEC 93 |
| 411-135 | SEAL FUEL CONTAINMENT DIKES | LS | 1,500 | APR 92 | JUL 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS PHASE II | 95 EA | 3,200 | TURN KEY | |
| 813-231 | RENOVATE ELECTRIC SUBSTATIONS | LS | 4,450 | JAN 92 | SEP 92 |
| | | TOTAL: | 27,650 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 130-142 | FIRE STATION | 9,600 SF | 1,300 |
| 171-851 | ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY | 53,000 SF | 17,800 |
| 311-173 | ACQUISITIONS MANAGEMENT COMPLEX, PHASE IIB | 108,000 SF | 15,000 |
| 871-183 | STORM DRAINAGE SYSTEM, PHASE I | 12,650 LF | 3,100 |
| 880-221 | FIRE PROTECTION SYSTEMS | 205,000 SF | 1,000 |
| | | TOTAL: | 38,200 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 171-851 | AFIT OPERATIONS COMPLEX | 82,500 SF | 9,400 |
| 171-851 | ADD TO AND ALTER AU PROF/TECH EDUCATION (AFIT) | 25,000 SF | 4,500 |
| 311-173 | ACQUISITION MANAGEMENT COMPLEX PHASE III | LS | 11,500 |
| 841-165 | WATER TREATMENT PLANT, AREA C | 7,000 KG | 10,000 |
| 880-211 | FIRE PROTECTION BASE FACILITIES | 250,000 SF | 6,000 |

10. Mission or Major Functions: HQ AFMC; AF Contract Law Center; AFMC International Logistics Ctr; AF Logistics Operations Ctr; Security Assistance Ctr; Materiel Systems Ctr; Center for Support & Technology Insertions; AFMC Safety/Inspection Ctr; Aeronautical Systems Ctr; Wright Laboratory; Aerospace Medical Research Directorate; & test wing with various types of aircraft; AF Institute of Technology; AF Intelligence

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | AIR FORCE MATERIEL COMMAND | 1.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

Command Foreign Aerospace Ctr; an AFRES fighter squadron (F-16's); and AMC airlift detach (C-12/C-21); AF Museum; & a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 19,400 |
| b. Water pollution: | 12,500 |
| c. Occupational safety and health: | 3,000 |
| d. Other Environmental: | 3,850 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | ADD TO AVIONICS RESEARCH LABORATORY, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.06 | 310-932 | ZHTP913302 | 5,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | SF | 37,000 | 125 | 4,625 |
| SUPPORTING FACILITIES | | | | 450 |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| COMMUNICATION SUPPORT | LS | | | ( 20) |
| TEMPEST SHIELDING | LS | | | ( 30) |
| PASSIVE SOLAR | SF | 36,900 | 2 | ( 75) |
| SUBTOTAL | | | | 5,075 |
| CONTINGENCY (5%) | | | | 254 |
| TOTAL CONTRACT COST | | | | 5,329 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 320 |
| TOTAL REQUEST | | | | 5,649 |
| TOTAL REQUEST (ROUNDED) | | | | 5,650 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural frame, walls, roof system, utilities, and necessary support.
Air Conditioning: 200 Tons.

11. REQUIREMENT: 645,705 SF ADEQUATE: 59,068 SF SUBSTANDARD: 0
PROJECT: Add to an avionics research laboratory, phase II (of II). (Current Mission)
REQUIREMENT: An adequate facility is required for research and development of new mission integrated avionics systems which serve as the eyes, ears, and brains for modern aircraft. Sensor data from radar, reconnaissance, weapons delivery, and electronic warfare systems on board the aircraft, when merged with data from off-board systems, must provide the air crew with the best possible information relative to the location of friends, foes, and targets. Data previously treated separately for these systems must be integrated to permit aircrews to make rapid decisions in a dynamic battle environment. This integration must first be tested in the laboratory for the new technology to be successfully proven. The close location of avionics equipment and personnel is needed for successful research and development of this technology.
CURRENT SITUATION: Many of the critical laboratory functions are housed in widely dispersed substandard facilities built in the 1940's. Being separated from the main avionics complex prevents real-time transfer of data among functions working on avionics integration. Electronics response times are now being measured in billionths of a second. With these faster electronic response times, physical separations over a few hundred feet cause timing and signal distortions in real-time research simulations. Real-time processing of enemy threat signal reception and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | ZHTP913302 |

jamming responses requires extremely short signal transmission delays. Transmissions between existing facilities result in delays of 25 to 100 times the acceptable maximum. Avionics development programs in the forefront of the technology cannot be fully integrated or evaluated utilizing the facilities as they presently exist, thereby limiting the avionics capability projected for the Advanced Tactical Fighter and other advanced aircraft. There are no available facilities capable of housing the required tasks. Industrial facilities are limited in capacity and are tailored to their respective products.

IMPACT IF NOT PROVIDED: Without this project the processing of real time data cannot be performed, thus seriously impacting the laboratory ability to test critical avionics equipment.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AVIONICS RESEARCH LABORATORY, PHASE II | | ZHTP913302 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 21 |
| (d) Date Design Complete | 93 DEC 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 330 |
| (b) All Other Design Costs | 252 |
| (c) Total | 582 |
| (d) Contract | 400 |
| (e) In-house | 182 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.06 | 311-173 | ZHTV933302 | 12,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER ACQUISITION MANAGEMENT | | | | |
| COMPLEX, PHASE II | SF | 100,000 | | 7,578 |
| ADDITION (UTILITIES VAULT) | SF | 38,000 | 95 | ( 3,610) |
| ALTERATION (RESEARCH LAB) | SF | 62,000 | 64 | ( 3,968) |
| SUPPORTING FACILITIES | | | | 3,340 |
| UTILITIES | LS | | | ( 1,400) |
| PAVEMENTS | SY | 18,000 | 45 | ( 810) |
| SITE IMPROVEMENTS | LS | | | ( 250) |
| COMMUNICATIONS SUPPORT | LS | | | ( 200) |
| PREWIRED WORK STATIONS | EA | 200 | 3,400 | ( 680) |
| SUBTOTAL | | | | 10,918 |
| CONTINGENCY (10%) | | | | 1,092 |
| TOTAL CONTRACT COST | | | | 12,010 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 721 |
| TOTAL REQUEST | | | | 12,731 |
| TOTAL REQUEST (ROUNDED) | | | | 12,850 |

10. Description of Proposed Construction: Concrete foundation, slab, columns and wall panels, built-up roof, freight elevator, and utilities connections to base systems. Alter existing building to accommodate simulators, rehabilitate building systems and provide corridor linkage to other buildings; provide prewired work stations, 500 vehicle parking area and necessary support.
Air Conditioning: 650 Tons.

11. REQUIREMENT: 1,125,100 LS ADEQUATE: 220,100 LS
SUBSTANDARD: 1,455,500 LS
PROJECT: Add to and alter acquisition management complex, phase II (of II), which includes construction of a utilities vault and alteration of an engineering research laboratory. (Current Mission)
REQUIREMENT: A consolidated utilities distribution vault to serve the acquisition management center is required to achieve efficient reliable facilites support through centralized utilities and communications services to the complex, thereby providing economy of scale, necessary redundancy, reliability, and controlled growth capacity. The utilities vault will support programmed expansion of the complex. Alteration of adjacent engineering research lab, which will be incorporated into the complex, is needed to accommodate simulator relocations, extend security access control, and provide more effective space utilization of existing assets. This project is the cornerstone of the 10-year plan for revitalization of the Aerospace Systems Center in support of aerospace development into the next century.
CURRENT SITUATION: Capacity and reliability of 1940s vintage utilities, such as the gas and electrical distribution systems, and communications connections are totally inadequate to meet the needs of the AMC.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II | ZHTV933302 |

Utilities terminals are in the wrong locations for efficient and reliable servicing of the proposed complex. Ground communications are outdated, decentralized, inefficient, and present potential security compromises, reflecting years of piecemeal expansion and constantly changing usage. Existing utilities and communications capabilities have been exhausted in support of Phase I construction. The existing engineering research lab is isolated and its high bay area, originally planned as an optical lab, is currently underutilized while the remainder of the space is highly segmented and inefficient as lab space.

IMPACT IF NOT PROVIDED: Without the utilities distribution vault, the acquisition management complex cannot be effectively utilized, depriving the Air Force of the economies and other benefits attributed to this effort. The engineering research laboratory cannot be integrated into the complex without the security and infrastructure support of this project, thereby depriving us of the capability to perform classified simulations.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER ACQUISITION MANAGEMENT COMPLEX, PHASE II | ZHTV933302 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 16 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 01 |
| (d) | Date Design Complete | 93 DEC 31 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 792 |
| (b) | All Other Design Costs | 358 |
| (c) | Total | 1150 |
| (d) | Contract | 980 |
| (e) | In-house | 170 |
| (4) | Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | SEAL FUEL CONTAINMENT DIKES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 411-135 | ZHTV923206 | 1,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SEAL FUEL CONTAINMENT DIKES | LS | | | 1,174 |
| SEAL FUEL CONTAINMENT DIKES | SY | 20,300 | 38 | ( 771) |
| REPLACE PIPELINE | LF | 5,300 | 76 | ( 403) |
| SUPPORTING FACILITIES | | | | 110 |
| UTILITIES | LS | | | ( 40) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| RESHAPE EARTH BERMS | LS | | | ( 50) |
| SUBTOTAL | | | | 1,284 |
| CONTINGENCY (10%) | | | | 128 |
| TOTAL CONTRACT COST | | | | 1,412 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 85 |
| TOTAL REQUEST | | | | 1,497 |
| TOTAL REQUEST (ROUNDED) | | | | 1,500 |

10. Description of Proposed Construction: Construct a concrete liner on bottom of 13 spill basins, extending the liner into the earth dikes. Replace fuel pipeline, valves and accessories beneath area to be paved.

11. REQUIREMENT: As required.

PROJECT: Seal thirteen fuel containment dikes. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Secondary containment around fuel storage areas is needed to contain all liquid petroleum which may spill from above-ground fuel storage tanks in event of tank rupture. The Federal Oil Pollution Prevention Regulation (40CFR, Section 112-7(e)(2)) requires impervious secondary containment for above ground tanks. This project is required in order to seal the dikes and replace deteriorated sections of pipeline beneath the containment area to prevent fuel from penetrating the ground or the dikes and polluting the soil and aquifer.

CURRENT SITUATION: Existing earthen dikes are not impervious and are coated with asphalt to reduce erosion. The base of the diked area is sand and gravel which permit leaching to the aquifer. The dikes cannot contain spilled fuel and do not meet criteria stated in the Federal Oil Pollution Prevention Regulation (Code of Federal Regulations, Title 40, Section 112) and Ohio Revised Code (ORC) 6111.02. Additionally, there is evidence that fuel lines in the vicinity of the fuel farm have been leaking.

IMPACT IF NOT PROVIDED: In event of a fuel spill, surrounding soil and the underlying aquifer will be quickly contaminated causing significant damage to the environment.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or Air Force Manual 86-2.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SEAL FUEL CONTAINMENT DIKES | ZHTV923206 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 APR 05 |
| (b) Percent Complete as of Jan 93 | 45% |
| (c) Date 35% Designed | 92 JUL 19 |
| (d) Date Design Complete | 93 JUL 12 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 90 |
| (b) All Other Design Costs | 40 |
| (c) Total | 130 |
| (d) Contract | |
| (e) In-house | 130 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | UNDERGROUND FUEL STORAGE TANKS PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 411-135 | ZHTV953204 | 3,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE II | EA | 99 | 21,580 | 2,136 |
| SUPPORTING FACILITIES | | | | 610 |
| UTILITIES | LS | | | ( 120) |
| MAINTENANCE AND CLEANING | LS | | | ( 195) |
| SITE ASSESSMENTS AND REMEDIATION | LS | | | ( 295) |
| SUBTOTAL | | | | 2,746 |
| CONTINGENCY (10%) | | | | 275 |
| TOTAL CONTRACT COST | | | | 3,021 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 181 |
| TOTAL REQUEST | | | | 3,202 |
| TOTAL REQUEST (ROUNDED) | | | | 3,200 |

10. Description of Proposed Construction: Install cathodic protection, release detection, and overfill prevention systems in 99 underground storage tanks. Also includes cleaning, sandblasting, coating, pressure testing, and installation of manways as required.

11. REQUIREMENT: As required.

PROJECT: Upgrade 99 underground storage tanks, phase 2 of 2. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Environmentally safe storage tanks are required to ensure continued operating storage of petroleum products and other environmentally controlled substances which are consumed in support/operation of emergency generators, gas stations, base shops, experimental laboratories, etc. Underground tanks must comply with federal and state environmental regulations. Under the Resource Conservation and Recovery Act (RCRA) Subtitle (40 CFR, parts 280 & 281) underground storage tanks must be provided with leak detection, spill/overfill prevention and for steel tanks, cathodic protection. The mandatory compliance date for this requirement is December 1998. The Ohio Administration Code (OAC) 1301: rules 7-7-28, 7-9-6, 7 requires compliance by December 1998; rules 7-9-9, 10 require compliance by 22 December 1995. Additionally, ORC 6111.04, Water Pollution Control, prohibits pollution of state waters.

CURRENT SITUATION: The existing 99 underground tanks do not comply with the following EPA standards which become effective in December 1995: OAC 1301: 7-9-9 designated Wright-Patterson as a sensitive area because it is located on sole source aquifer; OAC 1301: 7-9-10, Alternative Release Containment & Release Detection Methods for UST Systems Located in Sensitive Areas. Other rules requiring compliance are: 7-7-28 Ohio Fire

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UNDERGROUND FUEL STORAGE TANKS PHASE II | | ZHTV953204 |

Code Article 28, Flammable & Combustible Liquids; 7-9-6 Design, Construction, Installation & Upgrading for UST Systems; and 7-9-7 Leak Detection Requirements and Methods for UST Systems. Existing tanks do not have cathodic protection. This is the final phase of a two phased effort to upgrade regulated underground storage tanks at this base.

IMPACT IF NOT PROVIDED: Wright-Patterson AFB will continue to pose a threat of contaminating the environment, especially groundwater, with hazardous petroleum products. Noncompliance with state or federal environmental laws and directives could result in issuance of Notices of Violation. Alternatively, abandoning these tanks would seriously impact base missions.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in AFM 86-2. The number and size of tanks are determined based upon individual requirements at each facility. All reasonable alternatives (status quo, revitalization and replacement) were considered during the development of this project. No other option could meet the mission requirements; therefore, a formal economic analysis was not needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE II | ZHTV953204 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - YES
(b) Where Design Was Most Recently Used - WRIGHT P

(3) Design Allowance 165

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | RENOVATE ELECTRIC SUBSTATIONS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 813-231 | ZHTV933203 | 4,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RENOVATE ELECTRIC SUBSTATIONS | LS | | | 3,350 |
| SUPPORTING FACILITIES | | | | 440 |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 70) |
| SUBTOTAL | | | | 3,790 |
| CONTINGENCY (10%) | | | | 379 |
| TOTAL CONTRACT COST | | | | 4,169 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 250 |
| TOTAL REQUEST | | | | 4,419 |
| TOTAL REQUEST (ROUNDED) | | | | 4,450 |

10. Description of Proposed Construction: Replace 69 KV circuit breakers and relays in six substations. Includes replacement of lighting arrestors and provision of manholes, and other required support.

11. REQUIREMENT: As required.

PROJECT: Renovate six electrical substations. (Current Mission)

REQUIREMENT: The repair of these electrical substations is required to provide reliable and sufficient power to critical facilities located in this area of the base. Expansion throughout the years of the major tenants in this area of the base (Aeronautical Systems Center, Air Force Institute of Technology and the Air Force Museum) has heightened the need to replace major components of this 40 year old electrical distribution system. The primary functions of these facilities which are used for research and development, testing, and computer technology make electrical reliability mission essential.

CURRENT SITUATION: The electrical distribution system serving these facilities is 40 years old and not reliable. Faulty relaying and failed (exploding) breakers have caused two complete power outages in this part of the base in one year. This has produced an estimated loss of nearly $4 million in man-hours along with productivity losses. A single failure in the electrical system could blackout a large portion of this base for an extended period of time. A power failure will cause the shutdown of critical equipment supporting research and development efforts and sensitive computer equipment.

IMPACT IF NOT PROVIDED: In the event of a power failure at any of these substations, the continuous mission of one or more organizations will be interrupted, causing the loss of millions of dollars in lost manhours and productivity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RENOVATE ELECTRIC SUBSTATIONS | ZHTV933203 |

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2. The scope is based on the engineering design of this base infrastructure system. An economic analysis has been prepared comparing the alternatives of renovation or replacement of the system, and status quo operation. Based on the net present values and benefits of the respective alternatives, renovation was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RENOVATE ELECTRIC SUBSTATIONS | ZHTV933203 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JAN 10 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 FEB 05 |
| (d) Date Design Complete | 92 SEP 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 150 |
| (b) All Other Design Costs | 50 |
| (c) Total | 200 |
| (d) Contract | |
| (e) In-house | 200 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | AIR MOBILITY COMMAND | 0.86 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 394 | 2778 | 483 | 150 | 219 | 3 | | | | 4,027 |
| b. End FY 1998 | 372 | 2495 | 475 | 150 | 219 | 3 | | | | 3,714 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,698) | |
| b. Inventory Total As Of: (30 SEP 92) | 171,693 |
| c. Authorization Not Yet In Inventory: | 94,740 |
| d. Authorization Requested In This Program: | 6,930 |
| e. Authorization Included In Following Program: (FY 1995) | 3,750 |
| f. Planned In Next Four Program Years: | 51,970 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 329,083 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 130-142 | C-17 FIRE STATION (DBOF) | 2,600 SF | 780 | AUG 92 | MAY 93 |
| 171-212 | C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHASE II | 12,400 SF | 2,850 | JUL 92 | JUN 93 |
| 218-712 | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY | LS | 3,300 | AUG 92 | MAY 93 |
| | | TOTAL: | 6,930 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORY | 100 PN | 3,750 |
| | | TOTAL: | 3,750 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 121-122 | ADD TO AND ALTER HYDRANT FUELING SYSTEM | LS | 8,400 |
| 121-122 | ADD TO AND ALTER HYDRANT FUELING SYSTEM | LS | 13,200 |
| 179-511 | FIREMEN TRAINING FACILITY | LS | 950 |
| 211-111 | MAINTENANCE HANGAR | 98,900 SF | 15,000 |
| 411-135 | REPAIR JET FUEL STORAGE | 23 TK | 920 |

10. Mission or Major Functions: An air mobility wing with one C-5 squadron and one C-141 squadron that are responsible for training all C-5 and C-141 aircrews, and two air refueling squadroos (KC-135 aircraft). Also, designated to be the primary base for training all C-17 aircrews.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 950 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 2,370 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30M | 171-212 | AGGN943004 | 2,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | SF | 12,400 | 165 | 2,046 |
| SUPPORTING FACILITIES | | | | 375 |
| UTILITIES | LS | | | ( 210) |
| SITE IMPROVEMENTS | LS | | | ( 55) |
| PAVEMENTS | SY | 2,850 | 39 | ( 110) |
| SUBTOTAL | | | | 2,421 |
| CONTINGENCY (10%) | | | | 242 |
| TOTAL CONTRACT COST | | | | 2,663 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 160 |
| TOTAL REQUEST | | | | 2,823 |
| TOTAL REQUEST (ROUNDED) | | | | 2,850 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (63,600) |

10. Description of Proposed Construction: Concrete foundations, floor slab, masonry walls, high bay areas, and sloped roof. All special foundations and utilities systems to support the simulator equipment. Also included are supporting pavements for roads, parking and sidewalks. Air Conditioning: 50 Tons.

11. REQUIREMENT: 127,667 SF ADEQUATE: 115,292 SF SUBSTANDARD: 0
PROJECT: Add to C-17 flight simulation training facility, phase 2 of 2. (New Mission)
REQUIREMENT: Four bays are required to house new six-way flight simulators for the C-17 aircrew training program. These simulators will provide initial training, qualification, proficiency, and effective mission procedures training. These simulators are essential to provide hazardous emergency training procedures that otherwise could not be provided. For example, it would not be possible to actually fly three engine take offs safely. Facility construction is required in FY94 in order that the facility be construction complete in August 1995 to meet the simulator equipment delivery date of September 1995.
CURRENT SITUATION: This project is the second phase of a two phase program to construct flight simulator facilities to support the beddown of the C-17 aircraft at this base. The first phase was approved in the FY91 MILCON program to support initial delivery of the new aircraft and construction will be completed in 1993. This request will provide the final three bays needed to support C-17 aircrew training requirements. Other existing simulator facilities are and will continue to be in use for C-141, C-5, and KC-135 aircrew training. There are no other facilities on base which can be upgraded to meet this requirement.
IMPACT IF NOT PROVIDED: The beddown of the C-17 aircraft could not be

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ALTUS AIR FORCE BASE, OKLAHOMA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | | AGGN943004 |

accomplished without providing an adequate flight simulator facility for training aircrews. Delay in providing requested construction will be grounds for the simulator equipment vendor to renegotiate the contract to provide the three simulators. It is estimated that a new contract will result in a $30 to $40 million increase to purchase simulator equipment. ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, addition and new construction) was done. It indicates there is only one option (addition) that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | AGGN943004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 16 |
| (d) Date Design Complete | 93 JUN 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 135 |
| (b) All Other Design Costs | 116 |
| (c) Total | 251 |
| (d) Contract | 180 |
| (e) In-house | 71 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| C-17 FLIGHT SIMULATOR | 3080 | FY92 | 63600 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30M | 218-712 | AGGN923002 | 3,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | SF | 27,000 | | 2,518 |
| AEROSPACE GROUND EQUIPMENT ADDITION | SF | 8,200 | 100 | ( 820) |
| AIRCRAFT MAINTENANCE UNIT ADDITION | SF | 12,000 | 86 | (1,032) |
| EQUIPMENT SHOP/STORAGE ADDITION | SF | 6,800 | 98 | ( 666) |
| SUPPORTING FACILITIES | | | | 295 |
| UTILITIES | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| PAVEMENTS | LS | | | ( 60) |
| FUEL DISPENSING/STORAGE | LS | | | ( 50) |
| SUBTOTAL | | | | 2,813 |
| CONTINGENCY (10%) | | | | 281 |
| TOTAL CONTRACT COST | | | | 3,094 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 186 |
| TOTAL REQUEST | | | | 3,280 |
| TOTAL REQUEST (ROUNDED) | | | | 3,300 |

10. Description of Proposed Construction: Addition to Aircraft Ground Equipment (AGE) Shop will have concrete footings, foundation and floor slab with high bay steel frame, insulated walls and roof and overhead two ton hoist. Addition to the Aircraft Maintenance Unit (AMU) will be a steel framed mezzanine, latrines, utilities and necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to C-17 aircraft maintenance facility. (New Mission)

REQUIREMENT: Properly sized and configured facility for maintenance, repair and storage of powered aircraft support equipment including administrative support, tools, maintenance equipment, bench stock, technical data library and battery storage to support the beddown of the C-17 aircraft. A properly sized Aircraft Maintenance Unit (AMU) is required for the displaced C-5 AMU in Building 279 (AGE Shop) and the new C-17 AMU to provide adequate administrative support, tool kit storage area, change rooms, and technical data library to support each weapon system.

CURRENT SITUATION: The existing aircraft support shop is not properly configured, sized to support the new mission. The existing facility does not allow for easy access to maintenance bays for daily maintenance or storage to prevent damage from inclement weather. Equipment awaiting parts must be secured and placed outside to allow other equipment to be maintained. There are no other facilities available to house the new C-17 AMU or the C-5 AMU relocated with this project without construction of additional space.

IMPACT IF NOT PROVIDED: It will not be possible to provide adequate aircraft support equipment maintenance and AMU space for the new C-17 aircraft and AMU space to support the C-5 aircraft. Lack of functional

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | AGGN923002 |

AGE and AMU facilities will delay aircraft generation, and in some cases, loss of critical training missions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared which supports this project. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | AGGN923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 17 |
| (d) Date Design Complete | 93 MAY 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 200 |
| (b) All Other Design Costs | 187 |
| (c) Total | 387 |
| (d) Contract | 239 |
| (e) In-house | 148 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | AIR FORCE MATERIEL COMMAND | 0.87 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1433 | 5657 | 13357 | | | | | | | 20,447 |
| b. End FY 1998 | 1413 | 5576 | 11476 | | | | | | | 18,465 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,885) | |
| b. Inventory Total As Of: (30 SEP 92) | 562,263 |
| c. Authorization Not Yet In Inventory: | 104,330 |
| d. Authorization Requested In This Program: | 21,549 |
| e. Authorization Included In Following Program: (FY 1995) | 25,000 |
| f. Planned In Next Four Program Years: | 87,600 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 800,742 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 121-122 | ALTER HYDRANT FUELING SYSTEM | 5,300 | LF | 4,129 | SEP 92 | SEP 93 |
| 131-132 | MILSTAR COMMUNICATIONS GROUND TERMINAL | | LS | 800 | NOV 92 | SEP 93 |
| 411-135 | SEAL FUEL CONTAINMENT DIKES | 14,800 | SY | 620 | JUN 92 | SEP 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 78 | EA | 4,700 | JUL 92 | SEP 93 |
| 610-243 | ENGINEERING AND CONTRACT SUPPORT FACILITY | 47,700 | SF | 5,900 | AUG 92 | SEP 93 |
| 831-155 | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | 12,000 | LF | 5,400 | AUG 92 | DEC 93 |
| | | TOTAL: | | 21,549 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 141-753 | SQUADRON OPERATIONS/MOBILITY CENTER | 40,600 | SF | 5,700 |
| 217-742 | POWER PRODUCTION-REFRIGERATION MAINTENANCE FACILITY | 36,500 | SF | 4,000 |
| 610-287 | ENGINEERING AND INSTALLATIONS FACILITY | 66,275 | SF | 8,800 |
| 721-312 | ADD TO AND ALTER DORMITORIES | 280 | PN | 4,500 |
| 871-183 | STORM DRAINAGE SYSTEM | | LS | 2,000 |
| | | TOTAL: | | 25,000 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 121-122 | ADD TO AND ALTER JET FUEL TRANSFER SYSTEM | | LS | 2,500 |
| 141-764 | SOFTWARE SUPPORT FACILITY | 52,000 | SF | 8,800 |
| 217-742 | MOBILITY OPERATIONS FACILITY | 12,000 | SF | 1,200 |
| 217-742 | COMBAT COMMUNICATIONS SQUADRON OPERATIONS FACILITY | 44,300 | SF | 4,350 |
| 826-123 | ALTER AIR CONDITIONING PLANT | | LS | 2,650 |

10. Mission or Major Functions: Oklahoma City Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of E-3, B-1, B-2, B-52, and KC-135 aircraft, and aircraft engines; Air Combat Command Air control wing (E-3 and EC-135/C-135 aircraft) and combat communications group; and an Air Force Reserve

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | AIR FORCE MATERIEL COMMAND | 0.87 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

fighter group (F-16 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 30,100 |
| b. Water pollution: | 5,100 |
| c. Occupational safety and health: | 6,000 |
| d. Other Environmental: | 4,000 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | ALTER HYDRANT FUELING SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 121-122 | WWYK943028 | 4,129 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER HYDRANT FUELING SYSTEM | LS | | | 2,697 |
| REPLACE FUEL LINES | LF | 10,600 | 240 | (2,544) |
| REPLACE HYDRANT PUMPS | EA | 4 | 38,250 | ( 153) |
| SUPPORTING FACILITIES | | | | 825 |
| UTILITIES | LS | | | ( 95) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| LEAK DETECTION SYSTEM | LS | | | ( 195) |
| REMOVE CONTAMINATED SOIL | LS | | | ( 485) |
| SUBTOTAL | | | | 3,522 |
| CONTINGENCY (10%) | | | | 352 |
| TOTAL CONTRACT COST | | | | 3,874 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 232 |
| TOTAL REQUEST | | | | 4,106 |
| TOTAL REQUEST (ROUNDED) | | | | 4,129 |

10. Description of Proposed Construction: Replace 20 inch aluminum fuel lines with 12 inch lines, including removal and replacement of PCC apron pavement and removal of contaminated soil; replace 1200 gpm pumps with 600 gpm pumps; provide leak detection system, utilities and other support.

11. REQUIREMENT: As required.

PROJECT: Replace hydrant fueling lines and pumps. (Current Mission)

REQUIREMENT: A reliable and environmentally safe and compliant hydrant fueling system is required to expedite refueling of E-3A AWACS aircraft and transient aircraft supporting the depot aerial port. Replacement of the existing system is needed to assure continued operational capability of these aircraft and to reduce fuel spills and to eliminate the present environmental problem of soil and ground water contamination.

CURRENT SITUATION: The 4800 gallon per minute system was installed in two phases which were completed in 1978 and 1986. The 20 inch aluminum fuel lines are subject to breaks at elbow joints connecting long straight pipe sections caused by thermal expansion. This results in mission delays for the serviced aircraft and potential contamination of ground water. Breaks are located visually as fuel bubbles up between joints in the apron concrete. Since 1982, there have been at least six releases from the hydrant system due to system failure, resulting in release of thousands of gallons of fuel. Each release required removal of about 500 cubic yards of contaminated soil. The design of the present system is conducive to migration of contaminants over great distances. The aluminum fuel lines must be replaced with stainless steel to eliminate an environmental hazard and a serious operational/safety threat. The project is needed to comply with future environmental requirements and to provide for cleanup of contaminated soil. Replacement of the hydrant system is required to meet

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| TINKER AIR FORCE BASE, OKLAHOMA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ALTER HYDRANT FUELING SYSTEM | | WWYK943028 |

compliance standards of operation, to eliminate present extent of contamination and to avoid exacerbation of threats to environment, safety, and mission.

IMPACT IF NOT PROVIDED: Failure to implement this project will result in continued mission delays and soil/water contamination and could subject the base to civil or criminal actions associated with environmental damage.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission and regulatory requirements; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER HYDRANT FUELING SYSTEM | WWYK943028 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 12 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 NOV 11 |
| (d) Date Design Complete | | 93 SEP 07 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 255 |
| (b) All Other Design Costs | | 128 |
| (c) Total | | 383 |
| (d) Contract | | |
| (e) In-house | | 383 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 411-135 | WWYK933057 | 4,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 2,615 |
| REPLACE UNDERGROUND STORAGE TANKS | EA | 54 | 25,130 | (1,357) |
| ALTER UNDERGROUND STORAGE TANKS | EA | 24 | 12,670 | ( 304) |
| INSTALL CENTRAL MONITORING SYSTEM | LS | | | ( 954) |
| SUPPORTING FACILITIES | | | | 1,410 |
| SITE ASSESSMENT AND REMEDIATION | LS | | | ( 430) |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | LS | | | ( 100) |
| TANK REMOVAL | EA | 54 | 11,667 | ( 630) |
| SUBTOTAL | | | | 4,025 |
| CONTINGENCY (10%) | | | | 403 |
| TOTAL CONTRACT COST | | | | 4,428 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 266 |
| TOTAL REQUEST | | | | 4,694 |
| TOTAL REQUEST (ROUNDED) | | | | 4,700 |

10. Description of Proposed Construction: Remove and replace 54 underground storage tanks; upgrade 24 existing tanks to include installation of leak detection, spill/overfill prevention and corrosion protection, removal of oil/water separators; install a basewide tank monitoring system.

11. REQUIREMENT: As required.

PROJECT: Replace or upgrade 78 underground storage tanks. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Environmentally safe storage tanks are required to ensure continued operating storage of petroleum products and other environmentally controlled substances which are used in support/operation of depot and base shops, electric generators, gas stations, laboratories, etc. Underground tanks must comply with federal and state environmental and safety regulations. In order to comply with recent Environmental Protection Agency (EPA) regulations under Resource Conservation and Recovery Act (RCRA) Subtitle I (40CFR, part 280) and comparable state regulations, all underground storage tanks must be upgraded or replaced by December 1998.

CURRENT SITUATION: Most of the existing underground storage tanks were installed in the 1940s and are inadequate to meet stricter requirements of current regulations including leak detection, corrosion protection and spill/overfill protection. This underground storage capacity is for mission essential fuel storage. Leak tests are conducted annually and the base maintains an active manual inventory control. A central monitoring system will enable the base to perform leak detection on all their active regulated tanks from a single location and respond immediately to leaks

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | WWYK933057 |

and fires. This expandable system will initially monitor all 78 tanks included in this project.

IMPACT IF NOT PROVIDED: The base will be out of compliance with EPA regulations and with the passage of time, the potential for groundwater contamination will increase. Non-compliance could result in fines of up to $25,000 per day. Removal of tanks without replacement would seriously impact accomplishment of the base missions.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | WWYK933057 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| (a) | Date Design Started | 92 JUL 13 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 SEP 28 |
| (d) | Date Design Complete | 93 SEP 13 |
| (2) | Basis: | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) | Production of Plans and Specifications | 288 |
| (b) | All Other Design Costs | 225 |
| (c) | Total | 513 |
| (d) | Contract | 363 |
| (e) | In-house | 150 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | ENGINEERING AND CONTRACT SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 610-243 | WWYK923033 | 5,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ENGINEERING AND CONTRACT SUPPORT FACILITY | SF | 47,700 | 97 | 4,627 |
| SUPPORTING FACILITIES | | | | 655 |
| COMMUNICATION SUPPORT | LS | | | ( 120) |
| DEMOLITION | SF | 49,000 | 4 | ( 195) |
| FIRE PROTECTION | LS | | | ( 90) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| SPECIAL FOUNDATIONS | LS | | | ( 55) |
| UTILITIES | LS | | | ( 110) |
| SUBTOTAL | | | | 5,282 |
| CONTINGENCY (5%) | | | | 264 |
| TOTAL CONTRACT COST | | | | 5,546 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 333 |
| TOTAL REQUEST | | | | 5,879 |
| TOTAL REQUEST (ROUNDED) | | | | 5,900 |

10. Description of Proposed Construction: A two-story structural steel and masonry building, reinforced concrete foundations and floors, prewired workstations. Includes space for engineers, technicians, and contracting staff; rooms for drawing reproduction equipment, technical library and electronic equipment testing; administrative area and other necessary support. Demolish eight facilities totaling 48,980 square feet. Air Conditioning: 90 Tons.

11. REQUIREMENT: 47,700 SF ADEQUATE: 0 SUBSTANDARD: 70,576 SF
PROJECT: Construct an engineering and contracting support facility. (Current Mission)
REQUIREMENT: A properly sized and configured facility to house the 1845th Engineering Installation Group (AFCC) engineering and contracting staff of more than 300 people. The engineers design communications, air traffic control, and weather system installations. The contracting staff buys commercial components based on plans and performance specifications developed by the engineers. These systems support Air Force, Joint Chiefs of Staff, and Presidentially-directed programs valued at more than $3.25 billion. Examples are DOD Red Switch, Base Information Digital Distribution System, Milstar, and Next Generation Weather Radar programs. The proposed facility is part of an overall plan to replace the engineering and installation facilities through projects done sequentially in order to optimally use the existing real estate.
CURRENT SITUATION: Engineering and contracting personnel occupy two-story, asbestos-sided, wood-framed Korean War vintage facilities originally built for use as dormitories. These facilities have deteriorated beyond economical repair. Basic structural members have extensive termite and water damage, floors have sunk and pulled away from

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENGINEERING AND CONTRACT SUPPORT FACILITY | WWYK923033 |

walls and ceilings, and buildings are poorly insulated. Mechanical and electrical systems have outlived their serviceable life. The base currently is providing interim fixes such as shoring up floors and expedient utility repairs that minimize the expediture of scarce operations and maintenance resources. Eight substandard facilities totaling 48,980 square feet will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Existing facilities, even with continued repair, are not expected to remain habitable beyond 1994. At that time, the Air Force will need Title 10 authority for an off-base lease. No other space will be available on base for this requirement. This will delay the fielding of major Air Force, JCS, and Presidentially-directed systems. Theexisting facilities will continue to tie up base maintenance manpower and drain the base operations and maintenance funds totaling about $100,000 annually. The worsening conditions of existing buildings over the past several years necessitate immediate construction of new

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction and revitalization. Based on the net present values and benefits of the respective alternatives, new construction was found to be more cost efficient over the life of the project. This project meets the criteria specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENGINEERING AND CONTRACT SUPPORT FACILITY | WWYK923033 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 21 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 SEP 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 366 |
| (b) All Other Design Costs | 188 |
| (c) Total | 554 |
| (d) Contract | 369 |
| (e) In-house | 185 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-155 | WWYK943011 | 5,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | LS | | | 3,650 |
| INDUSTRIAL WASTEWATER LINES | LF | 15,000 | 170 | (2,550) |
| LIFT STATIONS | EA | 2 | 550,000 | (1,100) |
| SUPPORTING FACILITIES | | | | 1,175 |
| UTILITIES | LS | | | ( 225) |
| SITE IMPROVEMENTS | LS | | | ( 300) |
| LEAK MONITORING SYSTEM | LS | | | ( 400) |
| COMMINUTOR | LS | | | ( 250) |
| SUBTOTAL | | | | 4,825 |
| CONTINGENCY (5%) | | | | 241 |
| TOTAL CONTRACT COST | | | | 5,066 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 304 |
| TOTAL REQUEST | | | | 5,370 |
| TOTAL REQUEST (ROUNDED) | | | | 5,400 |

10. Description of Proposed Construction: Install a force and gravity flow wastewater connection main with an interstitial monitoring system. Includes pumps, valves, ancillary items and necessary support.

11. REQUIREMENT: As required.

PROJECT: Install a wastewater regional connection pipeline. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project to provide a connection to the local municipal sewage collection system to allow Tinker AFB to meet permitted effluent limitations for wastewater discharge from the two base treatment plants. A sewage lift station and a section of forced mains are required to pump the effluent uphill from the base treatment plants, and a comminutor is needed to grind solids in the wastewater. Connection must be provided by August 1995 to ensure compliance.

CURRENT SITUATION: Effluent from the existing industrial wastewater treatment plant (IWTP) and sanitary treatment plant (STP) discharges into an intermittent creek. The low water to effluent ratio at the point of discharge results in very low permit discharge limits for many constituents. The plants have a history of noncompliance. Both plants are barely meeting discharge limits. The current base discharge permit expires in August 1993. The state has indicated that upon renewal, the base's permit will contain even lower limits to meet Clean Water Act, Section 304(1) requirements for toxicity control. The IWTP could not meet lower limits without the benefit of a major upgrade. Upon completion of this project the IWTP would be retained as a pretreatment facility and the STP will be closed.

IMPACT IF NOT PROVIDED: The base industrial wastewater treatment plant

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | WWYK943011 |

will continue to exceed National Pollutant Discharge Elimination System (NPDES) permitted limits for effluent discharge. Potential fines and possible plant closure may result. Plant closure will shut down critical depot maintenance operations, severely crippling depot mission accomplishment.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | WWYK943011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 06 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 320 |
| (b) All Other Design Costs | 175 |
| (c) Total | 495 |
| (d) Contract | 330 |
| (e) In-house | 165 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| VANCE AIR FORCE BASE, OKLAHOMA | AIR TRAINING COMMAND | 0.83 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 355 | 398 | 92 | 204 | | | | 1 | | 1,050 |
| b. End FY 1998 | 393 | 385 | 96 | 231 | | | | 1 | | 1,106 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,394) | |
| b. Inventory Total As Of: (30 SEP 92) | 77,705 |
| c. Authorization Not Yet In Inventory: | 7,500 |
| d. Authorization Requested In This Program: | 6,000 |
| e. Authorization Included In Following Program: (FY 1995) | 3,650 |
| f. Planned In Next Four Program Years: | 23,700 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 118,555 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 136-664 | UPGRADE AIRFIELD LIGHTING | 46,800 LF | 3,300 | JUL 92 | DEC 93 |
| 442-000 | T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | 26,000 SF | 2,700 | JUL 92 | DEC 93 |
| | | TOTAL: | 6,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | LS | 750 |
| 832-266 | UPGRADE SANITARY SEWER SYSTEM | LS | 1,100 |
| 871-183 | UPGRADE STORM DRAINAGE SYSTEM | LS | 1,800 |
| | TOTAL: | | 3,650 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | T-37 REPLACEMENT FACILITY MODIFICATIONS | LS | 3,250 |
| 211-111 | MAINTENANCE HANGAR | 53,000 SF | 6,500 |
| 219-944 | BASE ENGINEERING COMPLEX | 47,600 SF | 5,000 |
| 442-758 | CONSOLIDATED LOGISTICS COMPLEX | 119,700 SF | 7,400 |
| 812-223 | REPAIR PRIMARY OVERHEAD DIST LINES - BASEWIDE | LS | 1,550 |

10. Mission or Major Functions: A flying training wing which conducts Undergraduate Pilot Training (UPT) with one T-37 squadron and one T-38 squadron. Also, base will undergo a T-37 to T-1 aircraft conversion.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 3,275 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 375 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANCE AIR FORCE BASE, OKLAHOMA | UPGRADE AIRFIELD LIGHTING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 136-664 | XTLF933303 | 3,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE AIRFIELD LIGHTING | LF | 46,800 | | 1,708 |
| RUNWAY LIGHTING 17L/35R | LF | 23,400 | 46 | (1,076) |
| TAXIWAY LIGHTING | LF | 23,400 | 27 | ( 632) |
| SUPPORTING FACILITIES | | | | 1,115 |
| DISTANCE MARKERS/WIND CONES | LS | | | ( 110) |
| THRESHOLD LIGHTING/RW END INDICATOR | LS | | | ( 665) |
| SALS APPROACH LIGHTING/FLASHERS | LS | | | ( 290) |
| VISUAL GLIDESLOPE INDICATOR | LS | | | ( 50) |
| SUBTOTAL | | | | 2,823 |
| CONTINGENCY (10%) | | | | 282 |
| TOTAL CONTRACT COST | | | | 3,105 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 186 |
| TOTAL REQUEST | | | | 3,291 |
| TOTAL REQUEST (ROUNDED) | | | | 3,300 |

10. Description of Proposed Construction: Upgrade the airfield lighting on the three north-south parallel runways and associated taxiways. Work shall include: installation of lighting fixtures and equipment on the inside runway (17L-35R) to convert it for nighttime operations, replacement of existing fixtures and equipment on the center (17C-35C) and outside (17R-35L) runways and taxiways with state-of-the-art systems.

11. REQUIREMENT: As required.

PROJECT: Upgrade airfield lighting. (Current Mission)

REQUIREMENT: This project is required to properly modify, upgrade and standardize existing visual navigational aid facilities to FAA and Air Force standards. This will improve operational safety, reliability and efficiency of the airfield through the use of equipment, fixtures and materials that can be adequately maintained. This lighting upgrade was identified in the 1988 Master Planning Study of Airfield Lighting Systems at Vance AFB and is required for the proper training and safety of inexperienced student pilots.

CURRENT SITUATION: Inexperienced student pilots fly 260 sorties per day to comply with the strict flying syllabus. Lack of runway lighting on the inside runway limits operations to only one type of aircraft at night to avoid marginally safe in-flight separation of aircraft. Threshold and runway edge lights do not provide high-intensity lighting required by Air Force directives. Visual glide slope indicators and other lighting equipment are both difficult and expensive to maintain. Existing cables have excessive current losses associated with advanced stages of insulation deterioration.

IMPACT IF NOT PROVIDED: Safety of pilots are in jeopardy if landings are attempted during outages. Night flying capacity will continue to be

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANCE AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING | XTLF933303 |

limited to one type of aircraft.
ADDITIONAL: An economic analysis was not prepared because this project directly supports a mission function for which there is no available alternative but to upgrade the airfield lighting. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANCE AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING | XTLF933303 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 02 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 29 |
| (d) | Date Design Complete | 93 DEC 20 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specificatcns | 210 |
| (b) | All Other Design Costs | 106 |
| (c) | Total | 316 |
| (d) | Contract | 236 |
| (e) | In-house | 80 |
| (4) | Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANCE AIR FORCE BASE, OKLAHOMA | T-1 SPECIALIZED UPT MAINTENANCE SUPPORT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.41 | 442-000 | XTLF933002 | 2,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | SF | 26,000 | | 2,247 |
| COMBS WAREHOUSE | SF | 17,500 | 50 | ( 875) |
| SIMULATOR CONTRACTOR LOGISTIC SUPPORT | SF | 8,500 | 77 | ( 655) |
| ALTER IN-FLIGHT SIMULATOR FACILITY | LS | | | ( 147) |
| CENTRALIZED AIRCRAFT SUPPPORT SYSTEM | EA | 38 | 13,290 | ( 505) |
| ALTER OPERATIONAL FACILITIES | LS | | | ( 65) |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES/COMMUNICATIONS SUPPORT | LS | | | ( 70) |
| PAVEMENTS/SITE IMPROVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 2,417 |
| CONTINGENCY (5%) | | | | 121 |
| TOTAL CONTRACT COST | | | | 2,538 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 152 |
| TOTAL REQUEST | | | | 2,690 |
| TOTAL REQUEST (ROUNDED) | | | | 2,700 |

10. Description of Proposed Construction: Masonry building with concrete floor slab and foundation to house a Contractor Managed Base Supply (COMBS) function. Also includes modifying hangars and simulator facility, installing centralized aircraft support system (CASS), tie-down and grounding points, and other necessary support.
Air Conditioning: 5 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a Contractor Operated and Managed Base Supply (COMBS) facility and modify facilities and systems to beddown the T-1 Jayhawk trainer aircraft. (New Mission)
REQUIREMENT: Per contract agreement, an integrated logistics support facility is to be provided to the contractor responsible for maintenance of 40 T-1 Jayhawk aircraft. The mission change will require enlargement of the flight training facilities for the new simulator contractor's support and management area, modifications to the in-flight simulator facility and other operational facilities, and the installation of a centralized aircraft support system (CASS) to start and maintain the aircraft while on the ramp.
CURRENT SITUATION: Vance AFB is currently an Undergraduate Pilot Training (UPT) base and utilizes both T-37 and T-38 aircraft. All facilities are configured for these airframes, which the T-1 Jayhawk aircraft is 9.7' wider than the T-37 and 18.1' wider than the T-38. Existing facilities are not available on the flightline for the COMBS warehouse/office function. This function must provide rapid response to parts replacement and secure storage of contractor owned parts. Simulator bays will need to be modified to permit the new simulator to be installed. Two additional floors must be constructed in one of the terrain model board rooms for

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANCE AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | XTLF933002 |

simulator contractor support for the T-1 Jayhawk trainer. The ramp parking plan must be altered and a new CASS system installed to support the new aircraft. First aircraft is scheduled for delivery in February 1995.

IMPACT IF NOT PROVIDED: Failure to accomplish this project will impact overall mission capabilities and jeopardize the beddown of the T-1 Jayhawk aircraft. Will be in violation of a contract agreement resulting in contractor claims.

ADDITIONAL: An economic analysis was not prepared for this project because there is only one method possible to accomplish the objective. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VANCE AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| T-1 SPECIALIZED UPT MAINTENANCE SUPPORT | XTLF933002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 16 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 92 OCT 23 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | REESE |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 162 |
| (b) All Other Design Costs | 54 |
| (c) Total | 216 |
| (d) Contract | 156 |
| (e) In-house | 60 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CHARLESTON AIR FORCE BASE, SOUTH CAROLINA | AIR MOBILITY COMMAND | 0.91 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 533 | 3642 | 1134 | 103 | 306 | 5 | 1 | 3 | 2 | 5,729 |
| b. End FY 1998 | 484 | 2714 | 1009 | 103 | 306 | 5 | 1 | 3 | 2 | 4,627 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,235) | |
| b. Inventory Total As Of: (30 SEP 92) | 145,509 |
| c. Authorization Not Yet In Inventory: | 65,700 |
| d. Authorization Requested In This Program: | 1,100 |
| e. Authorization Included In Following Program: (FY 1995) | 13,600 |
| f. Planned In Next Four Program Years: | 21,500 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 247,409 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY (DBOF) | | LS | 1,100 | JUN 92 | JUN 93 |
| | | | TOTAL: | 1,100 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 121-000 | C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM, PH III | | LS | 7,500 |
| 211-153 | C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP | 4,900 | SF | 3,500 |
| 442-257 | ALTER BASE HAZ MATERIALS STORAGE | | LS | 1,500 |
| 811-149 | AIRFIELD LIGHTING VAULT | 3,000 | SF | 1,100 |
| | | TOTAL: | | 13,600 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 211-000 | AIRCRAFT MAINTENANCE | 24,000 | SF | 4,400 |
| 219-000 | BASE ENGINEERING COMPLEX | 41,000 | SF | 5,600 |
| 442-257 | BASE HAZ MATERIALS STORAGE | 9,600 | SF | 1,300 |
| 721-315 | ALTER VISITING AIRMEN DORMITORY | 420 | PN | 5,000 |
| 843-315 | ADD TO AND ALTER FIRE HYDRANTS | 24,000 | LF | 1,750 |

10. Mission or Major Functions: An airlift wing which includes four C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; and an Air National Guard fighter interceptor detachment with F-16 aircraft. A joint military/civil use airfield. Also, primary base to receive new C-17 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 1,450 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CHARLESTON AIR FORCE BASE, SOUTH CAROLINA | FIRE TRAINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 179-511 | DKFX963500 | 1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE TRAINING FACILITY (DBOF) | EA | 1 | 815,000 | 815 |
| SUPPORTING FACILITIES | | | | 155 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | SY | 1,300 | 35 | ( 45) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 970 |
| CONTINGENCY (5%) | | | | 49 |
| TOTAL CONTRACT COST | | | | 1,019 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 61 |
| TOTAL REQUEST | | | | 1,080 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Live fire training facility with large frame aircraft mock-up, polyethylene liner system, JP-4 fuel pump and piping system, commercial power hook-up, gravity oil/water separator, access road, effluent holding pond and all necessary support.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS

PROJECT: Construct fire training facility. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. A live fire training facility is required to meet all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and contaminating the groundwater.

CURRENT SITUATION: The existing live fire training facility violated EPA pollution standards and was closed in 1984. It is inadequate for training as defined by Air Force regulation. The current aircraft mock-up is smaller than the required size and is not accessible for multi-directional approaches creating an artificial environment which limits the quality of training. The existing facility does not have high-density polyethylene flexible membrane liners and nets, a leak detection system, and spill containment capability. There are no environmentally approved live fire training facilities in the local area.

IMPACT IF NOT PROVIDED: The existing facility is closed because it does not meet environmental requirements. Required live fire training for the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| CHARLESTON AIR FORCE BASE, SOUTH CAROLINA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| FIRE TRAINING FACILITY (DBOF) | | DKFX963500 |

assigned fire fighters is not available. Without the stress and realism that come only with live fires, the fire fighters lose proficiency in combating fires. The potential for loss of aircraft and life is increased.

ADDITIONAL: There are no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | DKFX963500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUN 30 |
| (b) Percent Complete as of Jan 93 | | 65% |
| (c) Date 35% Designed | | 92 SEP 15 |
| (d) Date Design Complete | | 93 JUN 25 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | YES |
| (b) Where Design Was Most Recently Used - | | SCOTT |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 57 |
| (b) All Other Design Costs | | 19 |
| (c) Total | | 76 |
| (d) Contract | | 57 |
| (e) In-house | | 19 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| SHAW AIR FORCE BASE, SOUTH CAROLINA | AIR COMBAT COMMAND | 0.83 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 746 | 4579 | 518 | 16 | 26 | 252 | 11 | 42 | 9 | 6,199 |
| b. End FY 1998 | 705 | 4465 | 556 | 16 | 26 | 252 | 11 | 42 | 9 | 6,082 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,416) | |
| b. Inventory Total As Of: (30 SEP 92) | 157,483 |
| c. Authorization Not Yet In Inventory: | 11,080 |
| d. Authorization Requested In This Program: | 5,870 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 15,000 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 189,433 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,700 | AUG 92 | APR 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 520 | JUL 92 | DEC 92 |
| 740-884 | CHILD DEVELOPMENT CENTER | 24,500 SF | 2,650 | SEP 92 | JUN 93 |
| | | TOTAL: | 5,870 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | REPLACE APRON 3 | LS | 3,000 |
| 211-179 | FUEL SYSTEMS MAINTENANCE DOCK | 18,500 SF | 2,800 |
| 722-351 | DINING FACILITY AND TROOP ISSUE WAREHOUSE | 24,000 SF | 3,800 |
| 730-835 | SECURITY POLICE OPERATIONS | 12,000 SF | 1,600 |
| 740-675 | BASE LIBRARY & EDUCATION CENTER | 32,000 SF | 3,800 |

10. Mission or Major Functions: Headquarters Ninth Air Force; a fighter wing which includes three fighter squadrons (F-16 aircraft) and one air control squadron (OA-10 and A-10 aircraft). Also, the temporary beddown location of one F-16 squadron from Homestead AFB, FL.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 6,500 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SHAW AIR FORCE BASE, SOUTH CAROLINA | CONTROL TOWER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.14 | 149-962 | VLSB943002 | 2,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONTROL TOWER | LS | | | 1,552 |
| SUPPORTING FACILITIES | | | | 870 |
| UTILITIES | LS | | | ( 255) |
| PAVEMENTS | LS | | | ( 90) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| FIRE PROTECTION SYSTEMS | LS | | | ( 10) |
| COMMUNICATION SUPPORT | LS | | | ( 290) |
| SPECIAL FOUNDATION | LS | | | ( 25) |
| AIRFIELD WIRING | LS | | | ( 115) |
| DEMOLITION | LS | | | ( 50) |
| SUBTOTAL | | | | 2,422 |
| CONTINGENCY (5%) | | | | 121 |
| TOTAL CONTRACT COST | | | | 2,543 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 153 |
| TOTAL REQUEST | | | | 2,696 |
| TOTAL REQUEST (ROUNDED) | | | | 2,700 |

10. Description of Proposed Construction: Reinforced concrete footings, special foundation, floor slab, supporting superstructure, control tower cab, operations and training areas. Facility includes elevator, all site work, utilities, mechanical, electrical, fire protection and backup power systems. Existing tower will be demolished.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA
PROJECT: Construct an 86-foot high air traffic control tower with a 540 square foot cab. (Current Mission).
REQUIREMENT: A new air traffic control tower with larger cab to accommodate up to 11 air traffic control personnel, air traffic control equipment, crew briefings, operations, and training functions.
CURRENT SITUATION: The existing control tower was constructed in 1956. The 225 SF tower cab was configured to accommodate three controllers and the standard compliment of 1950s vintage equipment. The base mission and characteristics of aircraft supported have significantly changed since then, and more air traffic controllers and equipment are needed now to cover the current air operation. Furthermore, changes in airport configuration, air traffic patterns and visual obstructions to controllers make the proposed tower site more desirable than the existing site. Air traffic control operations at Shaw number 120,000 landings and take-offs annually. Shaw AFB is home base for three F-16 squadrons and one A/OA-10 squadron.
IMPACT IF NOT PROVIDED: Overcrowded cab conditions limit air traffic controller mobility and impact controller communications with pilots. These conditions, coupled with the additional effort required to safely control multiple F-16, A-10 and OA-10 aircraft during routine operations,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| SHAW AIR FORCE BASE, SOUTH CAROLINA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| CONTROL TOWER | | VLSB943002 |

create conditions that could jeopardize pilot safety and cause aircraft loss.

ADDITIONAL: The project is part of the Air Force Control Tower upgrade program managed by Air Force Communications Command (AFCC). Upon completion of this project, the existing tower will be demolished. The economic analysis for this project considered three alternatives: status quo, modify the existing tower, and construct a new tower. Status quo would not eliminate all deficiencies, and tower modification was determined to be technically infeasible. New construction is the only viable alternative. There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONTROL TOWER | VLSB943002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 01 |
| (b) | Percent Complete as of Jan 93 | 90% |
| (c) | Date 35% Designed | 92 SEP 01 |
| (d) | Date Design Complete | 93 APR 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 162 |
| (b) | All Other Design Costs | 81 |
| (c) | Total | 243 |
| (d) | Contract | 162 |
| (e) | In-house | 81 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SHAW AIR FORCE BASE, SOUTH CAROLINA | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 740-884 | VLSB903015 | 2,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 24,500 | 81 | 1,985 |
| SUPPORTING FACILITIES | | | | 405 |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | SY | 2,000 | 40 | ( 80) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| SUBTOTAL | | | | 2,390 |
| CONTINGENCY (5%) | | | | 120 |
| TOTAL CONTRACT COST | | | | 2,510 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 151 |
| TOTAL REQUEST | | | | 2,661 |
| TOTAL REQUEST (ROUNDED) | | | | 2,650 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural frame, masonry exterior, roof system, utilities, parking, playground, covered walkway and necessary support. Air Conditioning: 40 Tons.

11. REQUIREMENT: 24,500 SF ADEQUATE: 0 SUBSTANDARD: 10,500 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: A properly sized and functionally configured facility to provide supervised care and development experience for all eligible patrons. The current waiting list of 107 military children and 50 civilian eligible users validates this requirement. The facility must provide a comfortable, safe, and clean environment where patrons can leave their children on an hourly, or drop-in basis, without worrying about the level or nature of care.
CURRENT SITUATION: There are presently over 150 children on the waiting list for child care at Shaw AFB. Until recently child care services were provided out of two substandard facilities. In April 1990, one of the facilities was condemned due to severe structural problems from termite damage uncovered during an asbestos removal contract. The base is currently leasing a 3,360 SF modular classroom at a cost of $2,954 per month to enable continuation of child care services. The second facility is being used on an interim basis until a new facility can be constructed. The inadequacy of the existing child care facility and the shortage of on-base child care services creates serious hardships for personnel, especially single parents, who are unable to obtain adequate child care and is particularly trying during no-notice mission exercises. Demands have forced more of our young enlisted and junior officer families to pay a higher price for off-base child care.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | VLSB903015 |

IMPACT IF NOT PROVIDED: Eligible patrons will continue to be denied service. Personnel must continue to use expensive off-base programs or place children in unlicensed babysitting situations. This results in an additional hardship on military parents and degrades the morale, productivity and career satisfaction of the force.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | VLSB903015 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 02 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 SEP 23 |
| (d) Date Design Complete | | 93 JUN 18 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 130 |
| (b) All Other Design Costs | | 114 |
| (c) Total | | 244 |
| (d) Contract | | 174 |
| (e) In-house | | 70 |
| (4) Construction Start | | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA | AIR COMBAT COMMAND | 1.02 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 870 | 5067 | 494 | 34 | 76 | 12 | | | | 6,553 |
| b. End FY 1998 | 616 | 3385 | 480 | 34 | 76 | 12 | | | | 4,603 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,470) | |
| b. Inventory Total As Of: (30 SEP 92) | 410,072 |
| c. Authorization Not Yet In Inventory: | 30,420 |
| d. Authorization Requested In This Program: | 630 |
| e. Authorization Included In Following Program: (FY 1995) | 8,930 |
| f. Planned In Next Four Program Years: | 51,050 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 501,102 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 211-173 | ALTER AIRCRAFT MAINTENANCE DOCK | | LS | 630 | AUG 92 | APR 93 |
| | | TOTAL: | | 630 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 124-000 | UPGRADE POL DIKES AND BASINS | | LS | 1,230 |
| 610-128 | CONSOLIDATED ADMINISTRATION SUPPORT PH1 | 38,005 | SF | 6,200 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,500 |
| | | TOTAL: | | 8,930 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 113-321 | UPGRADE AIRCRAFT PARKING APRON | | LS | 10,300 |
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | | LS | 17,200 |
| 141-461 | USAF COMMAND POST | 10,000 | SF | 3,900 |
| 610-000 | CONSOLIDATED MANAGEMENT SUPPORT CENTER (PH 3) | 41,650 | SF | 5,700 |
| 841-161 | ADD TO AND ALTER WATER SUPPLY SYSTEM | 45,200 | LF | 4,400 |

10. Mission or Major Functions: A bomb wing which includes two B-1 squadrons; a missile wing with two Minuteman intercontinental ballistic missile squadrons; a tactics and training wing (responsible for combat situation training of all ACC bomber crews); a combat air rescue detachment with HH-1 helicopters; and an Air Mobility Command air refueling squadron (KC-135 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 7,730 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ARNOLD AIR FORCE BASE, TENNESSEE | AIR FORCE MATERIEL COMMAND | 0.90 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 74 | 58 | 199 | | | | | | | 331 |
| b. End FY 1998 | 70 | 48 | 197 | | | | | | | 315 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 39,081) | |
| b. Inventory Total As Of: (30 SEP 92) | 1,059,660 |
| c. Authorization Not Yet In Inventory: | 2,400 |
| d. Authorization Requested In This Program: | 1,500 |
| e. Authorization Included In Following Program: (FY 1995) | 6,800 |
| f. Planned In Next Four Program Years: | 20,800 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 1,091,160 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 831-165 | UPGRADE SEWAGE TREATMENT PLANT | | LS | 1,500 | SEP 92 | AUG 93 |
| | | | TOTAL: | 1,500 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 130-142 | UPGRADE FIRE PROTECTION SYSTEM | 6,800 | SF | 3,500 |
| 800-000 | ALTER COOLING WATER SYSTEM | | LS | 3,300 |
| | | TOTAL: | | 6,800 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 219-944 | BASE MAINTENANCE SHOP | 24,960 | SF | 3,000 |
| 411-139 | HARDER UTILITY VULNERABILITY, SPECIAL FUEL STORAGE | | LS | 4,800 |
| 610-811 | SECURE STORAGE VAULT | 2,400 | SF | 1,000 |
| 821-113 | ALTER STEAM AND CONDENSATE SYS TEM | 012,286 | SF | 1,100 |
| 844-367 | BASE FACILITY COOLING TOWER | 1 | EA | 10,900 |

10. Mission or Major Functions: Arnold Engineering Development Center which conducts research, development, testing, and evaluation in support of aerospace system acquisition. The complex of wind tunnels, jet and rocket engine test cells, space simulation chambers, and hyperballistic ranges is the largest in the U. S.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 2,000 |
| b. Water pollution: | 1,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 2,600 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ARNOLD AIR FORCE BASE, TENNESSEE | UPGRADE SEWAGE TREATMENT PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-165 | ANZY870369 | 1,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE SEWAGE TREATMENT PLANT | LS | | | 1,050 |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 110) |
| SITE IMPROVEMENTS | LS | | | ( 30) |
| O&M MANUAL, TRAINING AND START-UP | LS | | | ( 100) |
| SUBTOTAL | | | | 1,290 |
| CONTINGENCY (10%) | | | | 129 |
| TOTAL CONTRACT COST | | | | 1,419 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 85 |
| TOTAL REQUEST | | | | 1,504 |
| TOTAL REQUEST (ROUNDED) | | | | 1,500 |

10. Description of Proposed Construction: Upgrade sewage treatment plant by adding primary and secondary settling basins, a grit removal system, rebuilding sludge drying beds and replacing/upgrading trickling filter components, pumps, meters, a pump station and ancillary items. Upgrade laboratories and provide pretreatment facilities at steam plants, necessary support, O&M manuals and 180 day start-up operation and training.

11. REQUIREMENT: As required.

PROJECT: Upgrade a sewage treatment plant. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. An adequate sewage treatment plant is required to treat sewage and waste water. The treatment process must produce an effluent which meets federal and State of Tennessee water quality standards, as required by a permit issued under the National Pollutant Discharge Elimination System (NPDES) and the Clean Water Act, as amended.

CURRENT SITUATION: The existing sewage treatment plant does not consistently meet the discharge limits required by the National Pollutant Discharge Elimination System (NPDES) and State of Tennessee. Limits were exceeded 22 times in 1990. Arnold AFB has received one notice of violation for the operation of the plant during 1990. This leaves the plant in noncompliance with its permit, State of Tennessee regulations and the Clean Water Act. Lack of recirculation basins often results in the trickling filter running dry or operating too rapidly. The hydraulic capacity of the plant is exceeded about 75 percent of the time. The lack of duplicate primary settling tanks violates current environmental regulations and precludes taking a unit out of service for periodic maintenance. The plant capacity is 230 thousand gallons per day (TGD), but the flow has averaged 298 TGD over a recent 12-month period.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SEWAGE TREATMENT PLANT | ANZY870369 |

Inadequate facilities preclude effective operation of the sludge digestion equipment, which results in handling of foul smelling sludge. Discharge from the plant enters Woods Reservoir, which is a source of drinking water for Arnold AFB. Discharge of inadequately treated sewage into drinking water sources is not permissible and is a violation of the plant's permit.
IMPACT IF NOT PROVIDED: The sewage treatment plant would continue to be out of compliance with its permit limits and the Clean Water Act. Arnold AFB will potentially be exposed to fines ranging from $10,000 per day per violation. Significant adverse public reaction can be expected for continued violations.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SEWAGE TREATMENT PLANT | ANZY870369 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 28 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 AUG 16 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 51 |
| (b) All Other Design Costs | 84 |
| (c) Total | 135 |
| (d) Contract | 85 |
| (e) In-house | 50 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION<br>MEMPHIS NAVAL AIR STATION,<br>TENNESSEE | 4. COMMAND | 5. AREA CONST COST INDEX<br>0.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 6,200 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 6,200 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-621 | ALTER TECHNICAL TRAINING FACILITY | 49,650 SF | 2,000 | OCT 92 | SEP 93 |
| 171-625 | ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY | 25,000 SF | 3,000 | OCT 92 | DEC 93 |
| 721-315 | RENOVATE DORMITORY | 42,000 SF | 1,200 | OCT 92 | AUG 93 |
| | | TOTAL: | 6,200 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MEMPHIS NAVAL AIR STATION, TENNESSEE | ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.31 | 171-625 | DJDB948002 | 3,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY | SF | 25,000 | | 2,353 |
| ALTERATION | SF | 1,600 | 8 | ( 13) |
| ADDITION | SF | 23,400 | 100 | (2,340) |
| SUPPORTING FACILITIES | | | | 195 |
| UTILITIES/COMMUNICATIONS | LS | | | ( 195) |
| SUBTOTAL | | | | 2,548 |
| CONTINGENCY (10%) | | | | 255 |
| TOTAL CONTRACT COST | | | | 2,803 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 168 |
| TOTAL REQUEST | | | | 2,971 |
| TOTAL REQUEST (ROUNDED) | | | | 3,000 |

10. Description of Proposed Construction: Construct classroom and laboratory space in existing high-bay area, to include all necessary supporting features.

11. REQUIREMENT: 25,000 SF ADEQUATE: 0 SUBSTANDARD: 18,700 SF
PROJECT: Add to and alter high-bay technical training facility. (New Mission)
REQUIREMENT: Classrooms and laboratories of adequate size and configuration to support Air Force aircraft structures training. Additional square footage will be provided by a new mezzanine in the part of the existing high bay area.
CURRENT SITUATION: Existing facilities are not adequate for the total training and housing requirements to support consolidation and collocation of Air Force aircraft structures training with the Navy at Memphis Naval Air Station.
IMPACT IF NOT PROVIDED: Aircraft structures training cannot be accomplished jeopardizing the realignment from and closure of Chanute AFB and the production of qualified technicians.
ADDITIONAL: Aircraft structures training initially was moving to Sheppard AFB with the closure of Chanute AFB and was in the BRAC program. After an Interservice Training Review Organization (ITRO) study, $10 million in additional savings was identified by combining this training at Memphis NAS. Since BRAC funds were appropriated to move this training to Sheppard AFB, BRAC funds cannot be used to move training to Memphis NAS. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MEMPHIS NAVAL AIR STATION, TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER HIGH-BAY TECHNICAL TRAINING FACILITY | DJDB948002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 162 |
| (b) All Other Design Costs | 86 |
| (c) Total | 248 |
| (d) Contract | 210 |
| (e) In-house | 38 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MEMPHIS NAVAL AIR STATION, TENNESSEE | ALTER TECHNICAL TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.31 | 171-621 | DJDB948003 | 2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER TECHNICAL TRAINING FACILITY | SF | 49,700 | | 1,595 |
| TECHNICAL TRAINING LABORATORY | SF | 6,400 | 80 | ( 512) |
| TECHNICAL TRAINING CLASSROOM | SF | 43,300 | 25 | (1,083) |
| SUPPORTING FACILITIES | | | | 100 |
| UTILITIES/COMMUNICATIONS | SF | 2,500 | 4 | ( 10) |
| WORKSTATIONS | EA | 26 | 3,462 | ( 90) |
| SUBTOTAL | | | | 1,695 |
| CONTINGENCY (10%) | | | | 170 |
| TOTAL CONTRACT COST | | | | 1,865 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 112 |
| TOTAL REQUEST | | | | 1,977 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Alter technical training building to include construction of partitions and dropped ceilings, and alterations to the electrical system, air conditioning/humidity control system, ventilation/exhaust system, vacuum system, and plumbing.

11. REQUIREMENT: 49,700 SF ADEQUATE: 0 SUBSTANDARD: 49,700 SF
PROJECT: Alter technical training facility. (New Mission)
REQUIREMENT: Classrooms and laboratories of adequate size, configuration and with proper support systems for the nondestructive inspection, structural, and composite repair training of the Air Force aircraft structures training program.
CURRENT SITUATION: Existing facilities are not adequate for the total training and housing requirements to support consolidation and collocation of Air Force aircraft structures training with the Navy at Memphis Naval Air Station.
IMPACT IF NOT PROVIDED: Aircraft structures training cannot be accomplished jeopardizing the realignment from and closure of Chanute AFB and the production of qualified technicians.
ADDITIONAL: Aircraft structures training initially was moving to Sheppard AFB with the closure of Chanute AFB and was in the BRAC program. After an Interservice Training Review organization (ITRO) study, $10 million in addiitional savings was identified by combining this training at Memphis NAS. Since BRAC funds were appropriated to move this training to Sheppard AFB, BRAC funds cannot be used to move training to Memphis NAS. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MEMPHIS NAVAL AIR STATION, TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER TECHNICAL TRAINING FACILITY | DJDB948003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 20 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 105 |
| (b) All Other Design Costs | 56 |
| (c) Total | 161 |
| (d) Contract | 140 |
| (e) In-house | 21 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MEMPHIS NAVAL AIR STATION, TENNESSEE | RENOVATE DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.31 | 721-315 | DJDB948001 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RENOVATE DORMITORY (375 PN) | SF | 42,000 | 25 | 1,050 |
| SUBTOTAL | | | | 1,050 |
| CONTINGENCY (10%) | | | | 105 |
| TOTAL CONTRACT COST | | | | 1,155 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 69 |
| TOTAL REQUEST | | | | 1,224 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Renovate enlisted dormitory and detached administrative space to include replacement of damaged ceiling tiles, new doors to restrooms, new carpet, and paint walls. Grade Mix: 275 E1-E4; 100 E5-E6.

11. REQUIREMENT: 42,000 SF ADEQUATE: 0 SUBSTANDARD: 42,000 SF
PROJECT: Renovate dormitory and detached management space. (New Mission)
REQUIREMENT: Adequate student housing and supporting management space to house Air Force students attending aircraft structures training.
CURRENT SITUATION: Existing facilities are not adequate for the total training and housing requirements to support consolidation and collocation of Air Force aircraft structures training with the Navy at Memphis Naval Air Station.
IMPACT IF NOT PROVIDED: Aircraft structures training cannot be accomplished jeopardizing the realignment from and closure of Chanute AFB and the production of qualified technicians.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MEMPHIS NAVAL AIR STATION, TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RENOVATE DORMITORY | DJDB948001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 OCT 17 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 15 |
| (d) Date Design Complete | | 93 AUG 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 56 |
| (b) All Other Design Costs | | 20 |
| (c) Total | | 76 |
| (d) Contract | | 60 |
| (e) In-house | | 16 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| DYESS AIR FORCE BASE, TEXAS | AIR COMBAT COMMAND | 0.92 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 765 | 4465 | 401 | | | | | | | 5,631 |
| b. End FY 1998 | 752 | 4188 | 390 | | | | | | | 5,330 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,432) | |
| b. Inventory Total As Of: (30 SEP 92) | 218,829 |
| c. Authorization Not Yet In Inventory: | 16,770 |
| d. Authorization Requested In This Program: | 10,390 |
| e. Authorization Included In Following Program: (FY 1995) | 6,200 |
| f. Planned In Next Four Program Years: | 21,050 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 273,239 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM, PHASE II | | LS | 9,500 | AUG 92 | JUL 93 |
| 872-247 | WEAPONS STORAGE AREA SECURITY | 11,300 | LF | 890 | JUL 92 | JUL 93 |
| | | TOTAL: | | 10,390 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORIES | 25,300 | SF | 5,200 |
| 871-183 | STORM DRAINAGE FACILITIES | | LS | 1,000 |
| | | TOTAL: | | 6,200 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 111-111 | UPGRADE RUNWAY | | LS | 3,900 |
| 211-111 | HANGAR FIRE PROTECTION | | LS | 1,300 |
| 211-153 | ADD TO NONDESTRUCTIVE INSPECTION SHOP | | LS | 500 |
| 724-417 | VISITING OFFICERS QUARTERS | 40,000 | SF | 4,600 |
| 730-835 | SECURITY POLICE OPERATIONS | 9,000 | SF | 1,350 |

10. Mission or Major Functions: A flying wing which includes two bomb squadrons (B-1 aircraft) one of which is responsible for training all B-1 aircrews, and one air refueling squadron (KC-135 aircraft); and an Air Mobility Command airlift wing which includes two C-130 squadrons.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DYESS AIR FORCE BASE, TEXAS | UPGRADE HYDRANT FUELING SYSTEM, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 121-122 | FNWZ9230042 | 9,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE HYDRANT FUELING SYSTEM, PHASE II | | | | 7,772 |
| HYDRANT FUELING SYSTEM PITS | EA | 20 | 75,000 | (1,500) |
| RAMP SUPPLY AND RETURN PIPING | LF | 10,600 | 530 | (5,618) |
| ISOLATION VALVE PITS | EA | 8 | 39,880 | ( 319) |
| INTERCONNECTION TO B-1B SYSTEM | LF | 2,200 | 125 | ( 275) |
| LEAK DETECTION SYSTEM | LF | 7,500 | 8 | ( 60) |
| SUPPORTING FACILITIES | | | | 760 |
| SITE IMPROVEMENTS | LS | | | ( 560) |
| DEMOLITION | SY | 4,000 | 50 | ( 200) |
| SUBTOTAL | | | | 8,532 |
| CONTINGENCY (5%) | | | | 427 |
| TOTAL CONTRACT COST | | | | 8,959 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 538 |
| TOTAL REQUEST | | | | 9,497 |
| TOTAL REQUEST (ROUNDED) | | | | 9,500 |

10. Description of Proposed Construction: Replace flight line fuel supply and return piping, refueling pits, and lateral control pits to complete construction of hydrant system project. Includes leak detection, 20 refueling pits, isolation valve pits, interconnection to existing type III system, and demolition and disposal of five Type II pumphouses with tanks. Project includes all necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade hydrant fuel system Phase II. (Current Mission)

REQUIREMENT: A hydrant refueling system with 20 refueling pits (one for each aircraft parking position) is required to support assigned aircraft. Force generation schedules for emergency war and contingency missions require a simultaneous refueling capability for five aircraft within one hour. This drives the requirement for a hydrant system rated at 3000 gallons per minute. This phase of the two-phase initiative will complete the hydrant system by providing flightline fuel supply and return piping with leak detection (as required for new systems by Texas law) plus refueling pits and lateral control pits. Phase I provided limited capabilities by constructing pumphouses, tanks, backup power, fillstands and connections to the bulk fuel receiving system. This project is phased due to construction timing which will require execution over a two-year period.

CURRENT SITUATION: The existing hydrant refueling system, consisting of five pump houses, 30 underground operating tanks, and 55 refueling outlet pits was installed in 1957 to support B-47 and KC-97 aircraft. This system cannot provide the fuel flow rates necessary to meet the one-hour generation requirement for five KC-135 aircraft. The system is old and unreliable. Extensive maintenance and repairs are required just to keep

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| DYESS AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE HYDRANT FUELING SYSTEM, PHASE II | | FNWZ9230042 |

this system operational due to its age and heavy use. Ground water has penetrated electrical conduits causing excessive corrosion of the electrical pump controls and necessitating costly repairs just to sustain minimal capability. Existing refueling pits are improperly spaced for the assigned aircraft, thus adjacent pits cannot be used at the same time. Of 55 existing refueling pits, only 20 are usable due to spacing problems, and 10 of these are only authorized for use by a MAJCOM waiver to safety distance criteria and hose length restrictions on the refueling equipment. These same 10 pits also require refueling the aircraft from the blind side, which involves extensive work-arounds to comply with safety procedures.

IMPACT IF NOT PROVIDED: The base will not be able to meet required force generation times to support emergency war order/readiness requirements. Safety waivers will continue to be required for refueling aircraft under conditions conducive to fuel spills and accidents which could jeopardize the health and safety of maintenance personnel, as well as place multimillion dollar aircraft at risk.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DYESS AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE HYDRANT FUELING SYSTEM, PHASE II | FNWZ9230042 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 23 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 02 |
| (d) Date Design Complete | 93 JUL 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 200 |
| (b) All Other Design Costs | 42 |
| (c) Total | 242 |
| (d) Contract | 200 |
| (e) In-house | 42 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| GOODFELLOW AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.89 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 148 | 1255 | 317 | 219 | 562 | 19 | 12 | 861 | | 3,393 |
| b. End FY 1998 | 167 | 1145 | 384 | 170 | 438 | 1 | 12 | 861 | | 3,178 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 1,139) | |
| b. Inventory Total As Of: (30 SEP 92) | 108,733 |
| c. Authorization Not Yet In Inventory: | 5,380 |
| d. Authorization Requested In This Program: | 3,700 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 17,200 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 135,013 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 219-944 | BASE ENGINEERING COMPLEX | 44,900 SF | 3,700 | JUN 92 | SEP 93 |
| | | TOTAL: | 3,700 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 442-758 | LOGISTICS COMPLEX | 91,000 SF | 6,300 |
| 442-769 | FURNITURE MANAGEMENT AND SERVICES FACILITY | 22,200 SF | 1,100 |
| 721-312 | STUDENT DORMITORY | 288 PN | 6,800 |
| 812-223 | PRIMARY OVERHEAD DIST LINE | LS | 3,000 |

10. Mission or Major Functions: Training center for cryptology, intelligence, and linguistic training courses.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GOODFELLOW AIR FORCE BASE, TEXAS | BASE ENGINEERING COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 219-944 | JCGU880901 | 3,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEERING COMPLEX | SF | 44,900 | | 2,436 |
| MAINTENANCE SHOP | SF | 9,600 | 79 | ( 758) |
| ENGINEERING MANAGEMENT | SF | 13,300 | 69 | ( 918) |
| COVERED STORAGE FACILITY & SHED | SF | 18,600 | 29 | ( 539) |
| PAVEMENTS & GROUNDS FACILITY | SF | 3,400 | 65 | ( 221) |
| SUPPORTING FACILITIES | | | | 895 |
| UTILITIES/EMCS/COMMUNICATIONS | LS | | | ( 220) |
| SITE IMPROVEMENT/PAVEMENTS | LS | | | ( 200) |
| DEMOLITION | SF | 56,500 | 4 | ( 225) |
| PREWIRED WORKSTATIONS | EA | 60 | 4,167 | ( 250) |
| SUBTOTAL | | | | 3,331 |
| CONTINGENCY (5%) | | | | 167 |
| TOTAL CONTRACT COST | | | | 3,498 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 210 |
| TOTAL REQUEST | | | | 3,708 |
| TOTAL REQUEST (ROUNDED) | | | | 3,700 |

10. Description of Proposed Construction: Reinforced concrete foundation and concrete floor slab, pre-engineered metal frame, and roof system. Includes pre-wired work stations, management/engineering space, storage, shops, drafting room, control room, demolition of 19 buildings, relocate two storage sheds, and all necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 45,500 SF ADEQUATE: 640 SF SUBSTANDARD: 41,639 SF
PROJECT: Construct a base engineering complex. (Current Mission)
REQUIREMENT: A centralized Base Engineering facility, properly configured and sized to develop, program, and execute requirements to maintain, repair, operate and construct facilities, pavements and utility systems in support of the base mission.
CURRENT SITUATION: The existing Base Civil Engineering function is housed, for the most part, in 23 facilities constructed in 1941 to support facility maintenance practices at that time. The management building has been extensively modified with various additions to the extent that today there are unusable spaces within the interior floor plan. Very poor office arrangements and most importantly, the roof system is made up of different coverings and many different slopes making leaks difficult to locate and nearly impossible to repair. These leaks have damaged very expensive equipment. The shop and storage buildings cannot support a modern facility maintenance activity. In addition, zonal maintenance and reorganization will render them even more useless and inefficient. Nineteen buildings totalling 56,500 SF will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Base engineering functions will remain decentralized in substandard energy inefficient facilities with continued

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| GOODFELLOW AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| BASE ENGINEERING COMPLEX | | JCGU880901 |

safety and space problems. Civil engineering supplies and materials will deteriorate and become unusable due to constant exposure to the weather. ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Of the 23 existing buildings, 18 will be demolished, 2 relocated to new complex, and 3 converted to other missions. Other missions moving into converted buildings will vacate one building that will be demolished.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

GOODFELLOW AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX | JCGU880901 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 10 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | LAUGHLIN |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 77 |
| (b) All Other Design Costs | |
| (c) Total | 77 |
| (d) Contract | 60 |
| (e) In-house | 17 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| KELLY AIR FORCE BASE, TEXAS | AIR FORCE MATERIEL COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 875 | 3879 | 16243 | | | | | | | 20,997 |
| b. End FY 1998 | 828 | 3771 | 14251 | | | | | | | 18,850 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 4,703) | |
| b. Inventory Total As Of: (30 SEP 92) | 450,289 |
| c. Authorization Not Yet In Inventory: | 60,290 |
| d. Authorization Requested In This Program: | 27,481 |
| e. Authorization Included In Following Program: (FY 1995) | 21,750 |
| f. Planned In Next Four Program Years: | 48,090 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 607,900 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|
| 112-211 | UPGRADE TAXIWAY | 32,500 SY | 3,550 | MAY 92 | NOV 93 |
| 141-763 | C-17 ENGINEERING TEST LABORATORY | 19,000 SF | 2,600 | SEP 92 | NOV 93 |
| 211-153 | C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | 73,800 SF | 4,900 | SEP 92 | OCT 93 |
| 217-712 | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | 23,000 SF | 731 | SEP 92 | OCT 93 |
| 610-675 | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | 130,000 SF | 7,800 | APR 91 | JUN 93 |
| 721-312 | ADD TO AND ALTER DORMITORIES (DBOF) | 136 PN | 2,000 | OCT 92 | JAN 94 |
| 832-266 | UPGRADE SANITARY SEWER MAINS, PHASE I | 40,000 LF | 3,000 | SEP 92 | OCT 93 |
| 871-183 | UPGRADE STORM DRAINAGE SYSTEM, PHASE I | 3,600 LF | 2,900 | SEP 92 | DEC 93 |
| | | TOTAL: | 27,481 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 121-122 | ALTER HYDRANT FUELING SYSTEMS | LS | 3,850 |
| 211-152 | C-17 COMPOSITE REPAIR FACILITY | 55,000 SF | 5,400 |
| 211-157 | C-17 ENGINE OVERHAUL FACILITY | 65,000 SF | 6,700 |
| 721-312 | ADD TO AND ALTER DORMITORIES | 136 PN | 2,100 |
| 730-772 | ADD TO AND ALTER CHAPEL CENTER | 3,600 SF | 600 |
| 832-266 | UPGRADE SANITARY SEWER LINES | 40,000 LF | 3,100 |
| | | TOTAL: | 21,750 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 141-453 | BASE OPERATIONS | 44,000 SF | 4,400 |
| 441-758 | SUPPLIES & EQUIP WHSE DEPOT | 13,000 SF | 1,380 |
| 610-675 | BASE CONTRACTING FACILITY | 23,900 SF | 2,600 |
| 730-835 | SECURITY POLICE OPERATIONS | 25,000 SF | 2,400 |
| 812-225 | UPGRADE ELECTRIC DISTRIBUTION SYSTEM | LS | 2,900 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| KELLY AIR FORCE BASE, TEXAS | AIR FORCE MATERIEL COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: San Antonio Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of B-52, C-5, C-9, C-17, T-37, T-38, and T-41 aircraft, and all fuels and TF39/T56/F100 engines; an Air National Guard fighter group (F-16 squadron); an Air Force Reserve airlift wing (C-5 aircraft); Headquarters Air Force Intelligence Command; Air Force News Agency; Joint and Air Force Electronic Warfare Centers; Air Force Cryptological Applications Center; & an AF Intelligence Command intelligence wing.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 12,500 |
| b. Water pollution: | 23,400 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 4,350 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | UPGRADE TAXIWAY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 112-211 | MBPB953505 | 3,550 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE TAXIWAY | LS | | | 2,421 |
| REPAIR TAXIWAY | SY | 32,500 | 73 | (2,373) |
| REPAIR PAVED SHOULDERS | LS | | | ( 48) |
| SUPPORTING FACILITIES | | | | 635 |
| UTILITIES | LS | | | ( 50) |
| DEMOLITION | LS | | | ( 585) |
| SUBTOTAL | | | | 3,056 |
| CONTINGENCY (10%) | | | | 306 |
| TOTAL CONTRACT COST | | | | 3,362 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 202 |
| TOTAL REQUEST | | | | 3,564 |
| TOTAL REQUEST (ROUNDED) | | | | 3,550 |

10. Description of Proposed Construction: Remove and replace taxiway pavement with medium load concrete on stabilized aggregate base; repair or replace asphalt shoulders and lighting as necessary, including pavement marking and necessary support.

11. REQUIREMENT: 936,600 SY ADEQUATE: 904,100 SY
SUBSTANDARD: 32,500 SY
PROJECT: Upgrade taxiway. (Current Mission)
REQUIREMENT: A taxiway, in good repair, is required for ground movement of aircraft between parking aprons and the south end of the primary runway and to the hazardous cargo loading area. Access to the hazardous cargo area is especially important as Kelly Air Force Base is one of two collection and distribution points for standard munitions and equipment packages, referred to as Standard Air Munitions Packages (STAMP) and Standard Tanks, Racks, Adapters and Pylon Packages (STRAPP) that support combat units in contingency situations. The taxiway is also needed by operational C-5A and fighter aircraft for runway access.
CURRENT SITUATION: The existing taxiway consists of an asphalt overlay of a 50 year old deteriorated concrete base. A January 1990 pavement evaluation report by the Air Force Civil Engineering Center shows this taxiway as serviceable with load limitations. It recommends restricting the lighter aircraft using the pavement to 50 percent payload reduction. Heavier aircraft will have to reduce payload by 70 percent. Heavier traffic experienced during "Just Cause" and "Desert Storm" has further damaged the subbase to the point where pavement failure is possible even under reduced loads.
IMPACT IF NOT PROVIDED: The taxiway pavement is likely to fail within two to five years, which would require longer taxi distances for aircraft

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE TAXIWAY | MBPB953505 |

using the east ramp and would make the hazardous cargo pad inaccessible. Loading of munitions in support of operations such as "Desert Storm" would be hampered or would have to be accomplished in unsafe areas placing many lives at risk.

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, a full economic analysis was not needed or performed. A certificate of exemption has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE TAXIWAY | MBPB953505 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 MAY 21 |
| | (b) Percent Complete as of Jan 93 | 40% |
| | (c) Date 35% Designed | 92 AUG 10 |
| | (d) Date Design Complete | 93 SEP 30 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 97 |
| | (b) All Other Design Costs | 110 |
| | (c) Total | 207 |
| | (d) Contract | 76 |
| | (e) In-house | 131 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | C-17 ENGINEERING TEST LABORATORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30L | 141-763 | MBPB923003 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ENGINEERING TEST LABORATORY | SF | 19,000 | 90 | 1,710 |
| SUPPORTING FACILITIES | | | | 635 |
| UTILITIES | LS | | | ( 180) |
| PAVEMENTS | LS | | | ( 70) |
| SITE IMPROVEMENTS | LS | | | ( 315) |
| COMMUNICATIONS SUPPORT | LS | | | ( 30) |
| PRE-WIRED WORK STATIONS | EA | 12 | 3,333 | ( 40) |
| SUBTOTAL | | | | 2,345 |
| CONTINGENCY (5%) | | | | 117 |
| TOTAL CONTRACT COST | | | | 2,462 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 148 |
| TOTAL REQUEST | | | | 2,610 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Environmentally controlled building with reinforced concrete foundation and floor slab, steel frame, masonry walls and roof system; pre-wired work stations, site clearance, utilities, pavements and necessary support.
Air Conditioning: 70 Tons.

11. REQUIREMENT: 30,015 SF ADEQUATE: 11,015 SF SUBSTANDARD: 0
PROJECT: Construct a C-17 engineering test laboratory. (New Mission)
REQUIREMENT: An environmentally controlled facility is required for investigation of mishaps to life support equipment and engineering laboratory testing of primary C-17 aircraft components. Specifically, it is used to provide data for analysis of mishaps, to develop prototype engineering solutions to service revealed design deficiencies, develop nondestructive inspection procedures, gather engineering data from flight tests, resolve electronic component anomolies, verify contractor products and investigate corrosion and composite material problems. In addition to supporting C-17 requirements, the facility could be used to provide the same services for other weapon systems.
CURRENT SITUATION: No existing facility at Kelly Air Force Base can adequately house the engineering test support required for the C-17. Engineering test functions are performed on a smaller scale in laboratory space in three separate buildings. One is shared with other functions with no space for expansion, while the other two do not meet the environmental or space criteria required to perform the C-17 engineering test workload. Continued use or expansion of these facilities is not feasible.
IMPACT IF NOT PROVIDED: C-17 engineering test workload will have to be accomplished by contract, resulting in significantly increased costs and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| C-17 ENGINEERING TEST LABORATORY | | MBPB923003 |

program delays. It will also adversely impact the ability to resolve service revealed deficiencies and to undertake timely and effective engineering action to enhance system reliability and maintainability.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in AFM 86-2.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ENGINEERING TEST LABORATORY | MBPB923003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 25 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 05 |
| (d) Date Design Complete | 93 SEP 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 140 |
| (b) All Other Design Costs | 52 |
| (c) Total | 192 |
| (d) Contract | 140 |
| (e) In-house | 52 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30L | 211-153 | MBPB943007 | 4,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | SF | 74,000 | | 4,036 |
| ALTERATION | SF | 57,000 | 38 | (2,166) |
| ADDITION | SF | 17,000 | 110 | (1,870) |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 4,206 |
| CONTINGENCY (10%) | | | | 421 |
| TOTAL CONTRACT COST | | | | 4,627 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 278 |
| TOTAL REQUEST | | | | 4,905 |
| TOTAL REQUEST (ROUNDED) | | | | 4,900 |

10. Description of Proposed Construction: Addition includes concrete foundation and floor slab, metal walls and roof, relocation of hangar doors with new doors in the center section. Alteration includes upgrade of drainage and fire suppression systems, replacement of lighting and HVAC equipment, painting and necessary support.

11. REQUIREMENT: 87,750 SF ADEQUATE: 13,750 SF SUBSTANDARD: 57,000 SF
PROJECT: Add to and alter a C-17 nondestructive inspection (NDI) facility. (New Mission)
REQUIREMENT: A properly sized and configured facility is required in which to perform nondestructive inspections on C-17 aircraft prior to the onset of depot maintenance operations at this base. The facility must be large enough to house the entire aircraft and must have adequate utilities and fire protection. An addition to the existing hangar is needed to enclose the C-17 empennage section and revitalization of the utilities is needed to ensure efficient and reliable inspections.
CURRENT SITUATION: The existing facility was constructed in 1942 as an aircraft maintenance hangar. While the building is structurally sound, it is neither large enough nor high enough to enclose the C-17 tail section. Additionally, the heating and ventilation systems are marginal, while the industrial waste drains, lighting, hoists and fire protection system are inadequate for nondestructive inspection activities.
IMPACT IF NOT PROVIDED: Deferral of inspection workloads until space becomes available in the maintenance hangar, which will upset depot maintenance schedules and delay return of the aircraft to the using organization.
ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | MBPB943007 |

May 1990. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, contracting and status quo operation. Based on the net present values and benefits of the respective alternative, revitalization was found to be the most cost effective over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | MBPB943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 05 |
| (d) Date Design Complete | 93 OCT 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 275 |
| (b) All Other Design Costs | 117 |
| (c) Total | 392 |
| (d) Contract | 275 |
| (e) In-house | 117 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 610-675 | MBPB943012 | 7,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | LS | | | 5,770 |
| INTERIOR ALTERATIONS | SF | 130,000 | 29 | (3,770) |
| EXTERIOR UPGRADE | LS | | | (2,000) |
| SUPPORTING FACILITIES | | | | 905 |
| UTILITIES | LS | | | ( 200) |
| PAVEMENTS | SY | 10,500 | 29 | ( 305) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| DEMOLITION | LS | | | ( 300) |
| SUBTOTAL | | | | 6,675 |
| CONTINGENCY (10%) | | | | 668 |
| TOTAL CONTRACT COST | | | | 7,343 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 441 |
| TOTAL REQUEST | | | | 7,784 |
| TOTAL REQUEST (ROUNDED) | | | | 7,800 |

10. Description of Proposed Construction: Interior alterations include new suspended ceiling and lighting, fire detection and suppression system, carpet, wall covering, asbestos removal, window/door replacement, HVAC and electrical system upgrade. Exterior work includes window and entrance improvements, painting, site clean-up and necessary support.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 1,050,000 SF ADEQUATE: 729,600 SF
SUBSTANDARD: 607,500 SF
PROJECT: Alter a weapon systems support center. (Current Mission)
REQUIREMENT: A facility of adequate size and configuration with proper environmental controls is needed to assure timely and efficient logistical support to the managed weapon systems. Significant economies will result from collocation of logistics functions, directed by Defense Management Review (DMR) actions. These involve the acquisition, modification, repair and distribution of aircraft, engines and spare parts. Space savings envisioned in this project will make such a collocation possible without added floor space. This final phase will allow consolidation of material management functions currently located in remote buildings. Required improvements include installation of energy efficient doors, windows, lighting, and air conditioning, and replacement of worn out floor covering and asbestos ceilings.
CURRENT SITUATION: Core logistic functions are fragmented in five inadequate facilities separated by up to 1.5 miles. This fragmentation adversely impacts productivity and increases logistics response and pipeline times. The majority of the logistics professionals have been cramped into the inadequate Weapon Systems Support Center, which was constructed in 1942 as a warehouse and later converted to an administrative facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | MBPB943012 |

Projected force reductions resulting from the DMR, now make it possible to house all core logistics functions in the same building, if the floor plan is revised and building deficiencies corrected to accommodate long-term use. Building deficiencies include an unsafe electrical system (Risk Assessment Code 2 has been assigned), inadequate air conditioning, asbestos insulation and ceiling tiles, rotted window frames, and worn out exterior doors. The facility consumes energy at a rate 25% higher than a new or upgraded facility. Consolidation of functions will not only improve productivity, but will permit the demolition of about 28,000 square feet of substandard facilities upon completion of this project.
IMPACT IF NOT PROVIDED: Continued fragmentation of core logistics personnel and processes will significantly degrade logistics support to other major commands and friendly foreign nations, weakening their combat readiness posture. It will also increase DOD logistical support costs, waste energy, and defeat zero overpricing initiatives.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, private sector financing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | MBPB943012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 APR 12 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 91 JUN 20 |
| (d) Date Design Complete | 93 JUN 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 310 |
| (b) All Other Design Costs | 216 |
| (c) Total | 526 |
| (d) Contract | 310 |
| (e) In-house | 216 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 721-312 | MBPB867337 | 2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 28,650 | | 1,500 |
| ADDITION | SF | 3,350 | 70 | ( 235) |
| ALTERATIONS | SF | 25,300 | 50 | (1,265) |
| SUPPORTING FACILITIES | | 1 | | 200 |
| PAVEMENTS | LS | | | ( 125) |
| COMMUNICATIONS SUPPORT | LS | | | ( 25) |
| UTILITIES | LS | | | ( 25) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 1,700 |
| CONTINGENCY (10%) | | | | 170 |
| TOTAL CONTRACT COST | | | | 1,870 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 112 |
| TOTAL REQUEST | | | | 1,982 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Remodel interior partitioning to provide room-bathroom modules, exterior entrances and balconies; extend roofline and upgrade exterior; install cable TV system, upgrade laundry rooms and HVAC systems and provide necessary support.
Grade Mix: 272 E1-E4.

11. REQUIREMENT: 1,357 PN ADEQUATE: 1,085 PN SUBSTANDARD: 272 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that is conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy, are essential to the successful accomplishment of the increasingly complicated jobs these people must perform.
CURRENT SITUATION: The buildings to be upgraded were constructed in the early 1950s with community latrines on each floor, and are deficient in living space, privacy, sound attenuation, convenience outlets, lighting, and insulation. Many occupants are shift workers who find that the traffic in the corridors make daytime sleep difficult or impossible. This is the fourth phase of a five-phased program.
IMPACT IF NOT PROVIDED: Substandard on-base living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted force.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction and revitalization. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES (DBOF) | | MBPB867337 |

efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES (DBOF) | | MBPB867337 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 OCT 17 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 30 |
| (d) Date Design Complete | | 94 JAN 20 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 120 |
| (b) All Other Design Costs | | 200 |
| (c) Total | | 320 |
| (d) Contract | | 290 |
| (e) In-house | | 30 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | UPGRADE SANITARY SEWER MAINS, PHASE I |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 832-266 | MBPB943804 | 3,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE SANITARY SEWER MAINS, PHASE I | LF | 40,000 | 50 | 2,000 |
| SUPPORTING FACILITIES | | | | 590 |
| MANHOLES | EA | 150 | 1,600 | ( 240) |
| SITE IMPROVEMENTS | LS | | | ( 350) |
| SUBTOTAL | | | | 2,590 |
| CONTINGENCY (10%) | | | | 259 |
| TOTAL CONTRACT COST | | | | 2,849 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 171 |
| TOTAL REQUEST | | | | 3,020 |
| TOTAL REQUEST (ROUNDED) | | | | 3,000 |

10. Description of Proposed Construction: Excavate and replace sanitary sewer lines with PVC pipe, bedded and backfilled; repair pavements and restore site. Abandon existing lines in place where possible.

11. REQUIREMENT: As required.
PROJECT: Upgrade sanitary sewer mains, phase 1 of 3. (Current Mission)
REQUIREMENT: This is a Level I environmental compliance project. A sanitary sewage collection system in good working order is required to convey wastes from a base population of over 20,000, housed in more than 500 buildings, to a connection point with the City of San Antonio for treatment. The system must not discharge untreated sewage into local aquifers consistent with a Texas Water Commission (TWC) compliance order dated 4 May 1989. This order requires repair of all leaking underground collection systems by July 1995. This is the first phase of a three phased effort to upgrade sanitary sewage mains at this base.
CURRENT SITUATION: Most of the base sewer lines are over 40 years old and made of brittle vitrified clay which is susceptible to cracking and breaking by shifting soils. Emergency repairs to the system are often necessary as the lines are badly deterioriated. This condition was confirmed by a recent inspection using television cameras inside the lines. This inspection found 20 percent of the 200,000 feet of sewer lines needed replacement, with some sections completely disintegrated. Cross connections exist between industrial waste and sanitary sewer lines, leaving the potential of contaminating the sanitary sewage in violation of state and federal EPA regulations.
IMPACT IF NOT PROVIDED: Contamination of soil and aquifers will continue in violation of federal and state EPA regulations. High cleanup costs as well as fines and lawsuits are likely.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE SANITARY SEWER MAINS, PHASE I | | MBPB943804 |

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide", or in AFM 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the regulatory requirements; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared. This project complements the FY93 MILCON project to upgrade the industrial wastewater collection system and is not redundant.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE SANITARY SEWER MAINS, PHASE I | MBPB943804 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 05 |
| (d) Date Design Complete | | 93 OCT 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 186 |
| (b) All Other Design Costs | | 93 |
| (c) Total | | 279 |
| (d) Contract | | |
| (e) In-house | | 279 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | UPGRADE STORM DRAINAGE SYSTEM, PHASE I |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 871-183 | MBPB953003 | 2,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE STORM DRAINAGE SYSTEM, PHASE I | LF | 3,600 | 210 | 756 |
| SUPPORTING FACILITIES | | | | 1,735 |
| UTILITIES | LS | | | ( 95) |
| OTHER SUPPORTING FACILITIES | LS | | | (1,640) |
| SUBTOTAL | | | | 2,491 |
| CONTINGENCY (10%) | | | | 249 |
| TOTAL CONTRACT COST | | | | 2,740 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 164 |
| TOTAL REQUEST | | | | 2,904 |
| TOTAL REQUEST (ROUNDED) | | | | 2,900 |

10. Description of Proposed Construction: Replace existing storm sewer with 84 inch reinforced concrete pipe; remove contaminated soil as necessary; provide lift station, precast manholes, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade storm drainage system, phase 1 of 2. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. An adequate storm water runoff control system is required to prevent contamination of nearby streams and surface waters. Adequate detention/retention basins, stabilized ditches, fuel-water separators and elimination of cross-connections are needed to ensure heavy runoff cannot mix with oil and other contaminants associated with industrial activities, resulting in contamination of nearby streams. The volume and velocity of the runoff flow must be reduced in order to reduce the impact of heavy flows and allow contaminants to settle out before reaching off-base streams. Control of runoff from industrial areas is required by the Clean Water Act regulation (40 CFR 122.26). This is the first phase of a two phased effort to improve storm water control measures at this base.

CURRENT SITUATION: The capacity of the existing drainage system is substantially inadequate and cannot accommodate the water runoff generated from approximately 30 thunderstorms per year, to comply with a November 4, 1989 Texas Water Commission compliance order, which requires all leaking collection systems to be repaired by July 1995. The surface runoff has been increasing in past years with the construction of additional buildings and parking lots. Meanwhile, inadequate drainage capacity and lack of retention/detention basins in the base storm drainage system have contributed to on-base flooding and possible contamination of off-base streams. Flooding problems have been experienced in such areas as the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STORM DRAINAGE SYSTEM, PHASE I | MBPB953003 |

flight line, fuel storage and materials storage areas. Flooding has frequently resulted in production downtime. One recent flood caused the loss of 5,000 manhours.

IMPACT IF NOT PROVIDED: Uncontrolled runoff will result in the inability of the base to meet discharge limits during heavy rains. Also, continued flooding will adversely affect mission essential operations, increase potential health and safety hazards to base personnel, and increase surface water contamination.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE STORM DRAINAGE SYSTEM, PHASE I | MBPB953003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 150 |
| (b) All Other Design Costs | 171 |
| (c) Total | 321 |
| (d) Contract | 163 |
| (e) In-house | 158 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 1665 | 4111 | 2519 | 82 | 7086 | 93 | 11 | 372 | | 15,939 |
| b. End FY 1998 | 1706 | 4337 | 2747 | 298 | 5052 | 5 | 14 | 756 | 2 | 14,917 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 2,705) | |
| b. Inventory Total As Of: (30 SEP 92) | 346,839 |
| c. Authorization Not Yet In Inventory: | 66,900 |
| d. Authorization Requested In This Program: | 30,093 |
| e. Authorization Included In Following Program: (FY 1995) | 14,600 |
| f. Planned In Next Four Program Years: | 8,744 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 467,176 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 171-617 | TRAINING SERVICES FACILITIES | 38,050 SF | 5,800 | JUN 92 | SEP 93 |
| 610-243 | ALTER BASE SUPPORT FACILITY | 98,500 SF | 5,400 | JUN 92 | SEP 93 |
| 610-281 | BASE CONTRACTING CENTER | 17,300 SF | 2,450 | JUN 92 | NOV 93 |
| 610-281 | MISSION SUPPORT CENTER | 60,000 SF | 7,543 | JUN 90 | SEP 93 |
| 721-315 | 7-LEVEL TRAINING DORMITORY | 90,500 SF | 8,900 | OCT 92 | DEC 93 |
| | | TOTAL: | 30,093 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 171-476 | COMBAT ARMS TRAINING FACILITY | 37,300 SF | 4,200 |
| 171-621 | 7-LEVEL TRAINING CLASSROOMS | 12,000 SF | 2,000 |
| 610-249 | ALTER TECHNICAL TRAINING GROUP SUPPORT COMPLEX | 62,500 SF | 5,000 |
| 721-312 | ALTER RECRUIT DORMITORY | 1,000 PN | 3,400 |
| | | TOTAL: | 14,600 |

9b. Future Projects: Typical Planned Next Four Years;

| | | | |
|---|---|---|---|
| 130-835 | SECURITY POLICE OPERATIONS FACILITY | 15,450 SF | 1,850 |
| 131-111 | ADD TO AND ALTER COMMUNICATIONS FACILITY | 13,000 SF | 2,000 |
| 141-456 | AFSS OPERATIONS | 18,000 SF | 3,244 |
| 171-621 | DETECTOR DOG TRAINING CLASSROOM | 19,300 SF | 1,650 |

10. Mission or Major Functions: Air Force Military Training Center which includes Basic Military Training School, Officer Training School, and security police, cryptographic maintenance, recruiting, and social actions courses; Defense Language Institute English Language Center; DoD Military Working Dog Training Agency; and a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | TRAINING SERVICES FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 171-617 | MPLS909083 | 5,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| TRAINING SERVICES FACILITY | SF | 38,050 | | 3,790 |
| TRAINING AIDS SHOP | SF | 25,400 | 85 | (2,159) |
| AUDIO-VISUAL FACILITY | SF | 10,100 | 140 | (1,414) |
| TRAINING SERVICES MANAGEMENT | SF | 2,550 | 85 | ( 217) |
| SUPPORTING FACILITIES | | | | 1,420 |
| DEMOLITION | SF | 42,500 | 7 | ( 300) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| UTILITIES/COMMUNICATIONS SUPPORT | LS | | | ( 640) |
| PAVEMENTS | LS | | | ( 370) |
| PREWIRED WORKSTATIONS | EA | 12 | 2,917 | ( 35) |
| SUBTOTAL | | | | 5,210 |
| CONTINGENCY (5%) | | | | 261 |
| TOTAL CONTRACT COST | | | | 5,471 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 328 |
| TOTAL REQUEST | | | | 5,799 |
| TOTAL REQUEST (ROUNDED) | | | | 5,800 |

10. Description of Proposed Construction: Concrete foundation and floor slab, masony walls, structural frame and standing seam metal roof system. Includes pre-wired workstations, maintenance shop, base graphics, film library, base photolaboratory, demolition of 8 buildings and other necessary support.
Air Conditioning: 34 Tons.

11. REQUIREMENT: 38,050 SF ADEQUATE: 0 SUBSTANDARD: 39,152 SF
PROJECT: Construct training and audiovisual services facilities. (Current Mission)
REQUIREMENT: Adequate industrial shop type facilities are required to modify and maintain realistic training aids as required for tenant and Air Training Command missions. Audiovisual facilities are required to provide the very high demand graphic arts, audiovisual, and photo laborator support for the technical training mission.
CURRENT SITUATION: Training services completes 80 orders/month in support of 56 different organizations with a month backlog on orders. The training services function currently occupies eight separate buildings in two areas of the base. Seven of these buildings are 40 to 50 years old and are deteriorated due to age and major termite damage. Paint spray and equipment manufacturing areas are grossly inadequate. The audiovisual function is housed in an old dining hall which has deteriorated structural, mechanical, and electrical systems and unsuitable ventilation. The entire training services function is in facilities that are deteriorated, cramped, and poorly configured with obsolete utility systems that contribute to health and safety deficiencies. Eight buildings totalling 42,460 SF will be disposed of upon completion of this project.
IMPACT IF NOT PROVIDED: The training services function will continue to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TRAINING SERVICES FACILITIES | MPLS909083 |

operate at reduced efficiency or under unsafe conditions due to space limitations and dilapidated conditions greatly impacting the effectiveness of its support of the training mission. Audiovisual will remain in a totally inadequate facility well past its time for demolition. Energy and maintenance cost will continue to escalate.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| TRAINING SERVICES FACILITIES | MPLS909083 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 30 |
| (d) Date Design Complete | 93 SEP 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 345 |
| (b) All Other Design Costs | 191 |
| (c) Total | 536 |
| (d) Contract | 350 |
| (e) In-house | 186 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | ALTER BASE SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 610-243 | MPLS943216 | 5,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER BASE SUPPORT FACILITY | SF | 98,500 | 29 | 2,857 |
| SUPPORTING FACILITIES | | | | 1,765 |
| UTILITIES | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 100) |
| ELEVATOR | LS | | | ( 185) |
| PREWIRED WORKSTATIONS | EA | 90 | 3,722 | ( 335) |
| DEMOLITION AND ASBESTOS REMOVAL | SF | 101,000 | 7 | ( 705) |
| COMMUNICATION SUPPORT/EMCS | LS | | | ( 340) |
| SUBTOTAL | | | | 4,622 |
| CONTINGENCY (10%) | | | | 462 |
| TOTAL CONTRACT COST | | | | 5,084 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 305 |
| TOTAL REQUEST | | | | 5,389 |
| TOTAL REQUEST (ROUNDED) | | | | 5,400 |

10. Description of Proposed Construction: Alter vacant 600 PN dormitory to provide administration, classroom, storage, and computer room. Includes interior partitions, electrical and mechanical upgrade, Energy Management and Control System (EMCS) points, communications support, handicapped elevator, demolition of 11 vacated facilities and other associated work.
Air Conditioning: 350 Tons.

11. REQUIREMENT: 138,618 SF ADEQUATE: 0 SUBSTANDARD: 87,617 SF
PROJECT: Alter 600 PN dormitory to house numerous base support functions. (Current Mission)
REQUIREMENT: An adequate, energy efficient, properly configured facility is required to allow numerous base support activities scattered throughout Lackland to vacate substandard facilities and consolidate into one facility. This facility will provide space for Food Service Contractor, Civilian Personnel, Airman Leadership School, 3541st Recruiting Squadron, CATO, 8050 Military Training Squadron, Education Center, Food Service Offices, 801st Battalion and 8th Group Military Police, Corps of Engineers Project Office and Honor Guard.
CURRENT SITUATION: Support functions are currently located in eleven wood frame buildings totalling 101,000 SF, which will be demolished upon completion of this project. These buildings have far exceeded their life expectancy, are structurally unsound, energy inefficient, and lack adequate electrical, mechanical and fire protection systems. The facilities are generally inadequate in configuration and their age and condition make them uneconomical to upgrade. Final beddown will consolidate all personnel into one building with five buildings reverting to other base functions.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER BASE SUPPORT FACILITY | MPLS943216 |

IMPACT IF NOT PROVIDED: Continued use of energy inefficient facilities causing personnel to work in substandard, cramped, and deplorable facilities. A savings in energy and maintenance cost will not be realized.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER BASE SUPPORT FACILITY | MPLS943216 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 30 |
| (d) Date Design Complete | 93 SEP 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 336 |
| (b) All Other Design Costs | 109 |
| (c) Total | 445 |
| (d) Contract | 301 |
| (e) In-house | 144 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | MISSION SUPPORT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 610-281 | MPLS889006 | 7,543 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MISSION SUPPORT CENTER | SF | 60,000 | 82 | 4,920 |
| SUPPORTING FACILITIES | | | | 1,870 |
| DEMOLITION/ASBESTOS REMOVAL | SF | 97,500 | 6 | ( 585) |
| COMMUNICATIONS SUPPORT | LS | | | ( 160) |
| UTILITIES | LS | | | ( 245) |
| PAVEMENTS | LS | | | ( 125) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| PREWIRED WORKSTATIONS | EA | 214 | 2,570 | ( 550) |
| EMCS | LS | | | ( 120) |
| SUBTOTAL | | | | 6,790 |
| CONTINGENCY (5%) | | | | 340 |
| TOTAL CONTRACT COST | | | | 7,130 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 428 |
| TOTAL REQUEST | | | | 7,558 |
| TOTAL REQUEST (ROUNDED) | | | | 7,543 |

10. Description of Proposed Construction: Reinforced concrete slab, steel framing, masonry walls, and a standing seam metal roof. Includes office space, classrooms, courtroom, command post, secure storage, pre-wired workstations, demolition of nine buildings, and other necessary support.
Air Conditioning: 150 Tons.

11. REQUIREMENT: 60,736 SF ADEQUATE: 736 SF SUBSTANDARD: 96,799 SF
PROJECT: Construct a mission support center. (Current Mission)
REQUIREMENT: To consolidate the organizations for technical training center that provides command and control and service to military and civilian personnel working on the installation. A central facility will simplify operating procedures, reduce processing time and improve effectiveness.
CURRENT SITUATION: Center Management and Support Group functions are presently located in eleven widely dispersed buildings on base. These buildings are over 50 year old wood frame construction and have far exceeded their life expectancy. They are structurally unsound, energy inefficient, and lack adequate electrical, mechanical, and fire protection systems. The facilities are generally inadequate in configuration and their age and condition make them uneconomical to upgrade. These nine facilities totalling 97,743 SF will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Continued use of these energy inefficient and poorly configured facilities will force personnel to work in substandard, cramped, and deplorable facilities. A savings in energy and maintenance cost will not be realized.
ADDITIONAL: An economic analysis has been prepared comparing the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MISSION SUPPORT CENTER | MPLS889006 |

alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MISSION SUPPORT CENTER | MPLS889006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 JUN 19 |
| (b) Percent Complete as of Jan 93 | 60% |
| (c) Date 35% Designed | 91 APR 25 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 460 |
| (b) All Other Design Costs | 126 |
| (c) Total | 586 |
| (d) Contract | |
| (e) In-house | 586 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | BASE CONTRACTING CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 610-281 | MPLS929007 | 2,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE CONTRACTING CENTER | SF | 17,300 | 89 | 1,540 |
| SUPPORTING FACILITIES | | | | 675 |
| COMMUNICATIONS SUPPORT | LS | | | ( 50) |
| UTILITIES | LS | | | ( 75) |
| PAVEMENTS | LS | | | ( 80) |
| SITE IMPROVEMENTS | LS | | | ( 60) |
| PREWIRED WORKSTATIONS | EA | 83 | 3,675 | ( 305) |
| DEMOLITION | SF | 18,000 | 4 | ( 70) |
| EMCS | LS | | | ( 35) |
| SUBTOTAL | | | | 2,215 |
| CONTINGENCY (5%) | | | | 111 |
| TOTAL CONTRACT COST | | | | 2,326 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 140 |
| TOTAL REQUEST | | | | 2,466 |
| TOTAL REQUEST (ROUNDED) | | | | 2,450 |

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, structural frame and standing seam metal roof system. Includes pre-wired workstations, computer room, bid conference rooms, storage, demolition of one interim use facility, and other support areas. Air Conditioning: 44 Tons.

11. REQUIREMENT: 17,300 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a base contracting center. (Current Mission)

REQUIREMENT: A permanent contracting facility is required to support the 94 permanent employees and an average of 30 contractors, vendors and design engineers which utilize the facility daily. Base contracting is the primary point of contact between base and private contractors who provide services and supplies to the base.

CURRENT SITUATION: When the San Antonio Contracting Center (SACC) was disestablished on 1 October 1989, no funds were provided for a permanent facility. A relocatable building, purchased with equipment funds, was erected to support the additional 82 personnel assigned to Lackland from SACC. One interim facility will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: No permanent solution other than the use of an interim facility.

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE CONTRACTING CENTER | MPLS929007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 30 |
| (d) Date Design Complete | 93 SEP 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 140 |
| (b) All Other Design Costs | 98 |
| (c) Total | 238 |
| (d) Contract | 142 |
| (e) In-house | 96 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | 7-LEVEL TRAINING DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 721-315 | MPLS953226A | 8,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| 7-LEVEL TRAINING DORMITORY (453 PN) | SP | 90,500 | 74 | 6,697 |
| SUPPORTING FACILITIES | | | | 1,275 |
| UTILITIES | LS | | | ( 295) |
| PAVEMENTS | LS | | | ( 250) |
| SITE IMPROVEMENTS | LS | | | ( 250) |
| EMCS | PT | 175 | 1,200 | ( 210) |
| PRE-WIRED TELEPHONE | SF | 90,500 | 3 | ( 270) |
| SUBTOTAL | | | | 7,972 |
| CONTINGENCY (5%) | | | | 399 |
| TOTAL CONTRACT COST | | | | 8,371 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 502 |
| TOTAL REQUEST | | | | 8,873 |
| TOTAL REQUEST (ROUNDED) | | | | 8,900 |

10. Description of Proposed Construction: Concrete foundation, brick structure with standing seam metal roof. Construct private rooms with adjoining latrines, community lounges, washroom facilities and linen storage.
Air Conditioning: 112 Tons. Grade Mix: 453 E5-E6.

11. REQUIREMENT: 1,921 PN ADEQUATE: 1,468 PN SUBSTANDARD: 0
PROJECT: Construct 7-level training dormitory. (New Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Adequate on-base living quarters are required to accommodate enlisted student personnel attending advanced training courses and to ensure an environment conducive to studying is available.
CURRENT SITUATION: Base facilities are not available to house E-5 and E-6 students that will attend 7-level training. No excess dormitory capacity exists or is projected to exist. Additional dormitory projects are programmed to either renovate current space or to construct new space to accommodate other realigned and current mission requirements. None of these increased capacities can be dedicated for this requirement. Quantity of off-base rentals are insufficient for this requirement.
IMPACT IF NOT PROVIDED: Adequate living quarters will not be available for personnel attending 7-level training jeopardizing the 7-level training mission.
ADDITIONAL: This project does not meet the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" and does not meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| 7-LEVEL TRAINING DORMITORY | MPLS953226A |

leasing, new construction) was done. It indicates new construction is the only option that will meet the requirements. Because of this, a full economic analysis was not performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| 7-LEVEL TRAINING DORMITORY | MPLS953226A |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 21 |
| (d) Date Design Complete | 93 DEC 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | LACKLAND |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 450 |
| (b) All Other Design Costs | 200 |
| (c) Total | 650 |
| (d) Contract | 550 |
| (e) In-house | 100 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LACKLAND TRAINING ANNEX, TEXAS | AIR TRAINING COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 56 | 41 | 14 | 17 | 55 | | | | | 183 |
| b. End FY 1998 | 56 | 40 | 15 | 35 | 35 | | | | | 181 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,973) | |
| b. Inventory Total As Of: (30 SEP 92) | 47,419 |
| c. Authorization Not Yet In Inventory: | 1,170 |
| d. Authorization Requested In This Program: | 1,200 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 49,789 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|
| 214-425 | VEHICLE MAINTENANCE FACILITY | 8,000 SF | 1,200 | AUG 92 | JUL 93 |
| | | TOTAL: | 1,200 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Some Officer Training School functions; an Air Force Materiel Command weapons distribution detachment; and an Air Force Intelligence Command detachment. Also, the temporary beddown location of the Inter-American Air Forces Academy that had been at Homestead AFB.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND TRAINING ANNEX, TEXAS | VEHICLE MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.19 TIARA | 214-425 | PAYZ944057 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| VEHICLE MAINTENANCE FACILITY | SF | 8,000 | 92 | 736 |
| SUPPORTING FACILITIES | | | | 340 |
| UTILITIES | LS | | | ( 120) |
| PAVEMENTS | LS | | | ( 75) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| DEMOLITION AND DISPOSAL | SF | 4,650 | 10 | ( 45) |
| SUBTOTAL | | | | 1,076 |
| CONTINGENCY (5%) | | | | 54 |
| TOTAL CONTRACT COST | | | | 1,130 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 68 |
| TOTAL REQUEST | | | | 1,198 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Construct reinforced concrete foundation, floor slab, masonry walls (high-bay); structural steel frame with flat roof; parking area; and lighting. Includes hoist system, lubrication system, compressed air, and all utilities. Area to include tire maintenance, battery shop, bench stock, tool issue, toilets, admin area, water-oil separator and area for refueling.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 8,000 SF ADEQUATE: 0 SUBSTANDARD: 4,650 SF
PROJECT: Construct a vehicle maintenance facility. (Current Mission)
REQUIREMENT: Adequate, functionally suited facility to provide in-garrison, essential day-to-day maintenance and capability to provide depot-level support for a fleet of 150 vehicles assigned to the unit's SENIOR TROUPE mission.
CURRENT SITUATION: The foundation of the 35-year-old facility is settling. In addition, space is not available in the existing facility to locate bench stock supplies and the master reference library. These functions currently are located in an adjacent area in deteriorated, portable metal buildings, and items stored in these buildings have suffered water and heat damage.
IMPACT IF NOT PROVIDED: This unit remains the only unit of this type in the command as others were deactivated as part of the drawdown of overseas forces. This places increased importance on the readiness of this SENIOR TROUPE mission, and vehicles must remain in a high state of readiness at all times. Without an adequate vehicle maintenance facility, vehicle maintenance will continue to operate below effective levels. Numerous vehicle maintenance tasks will continue to be accomplished in uncovered areas using field methods and equipment. In-garrison major overhaul

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LACKLAND TRAINING ANNEX, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| VEHICLE MAINTENANCE FACILITY | | PAYZ944057 |

capability of assigned vehicles will continue to be slow and tedious due to insufficient space.

ADDITIONAL: Demolition of the existing, substandard facility is included in this project. The unit vehicle sets are not part of the inventory of the main operating base, Lackland Air Force Base, Texas. There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND TRAINING ANNEX, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| VEHICLE MAINTENANCE FACILITY | PAYZ944057 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 AUG 20 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 SEP 17 |
| (d) | Date Design Complete | 93 JUL 28 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 72 |
| (b) | All Other Design Costs | 87 |
| (c) | Total | 159 |
| (d) | Contract | 86 |
| (e) | In-house | 73 |
| (4) | Construction Start | 93 NOV |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LAUGHLIN AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.95 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 400 | 738 | 858 | 243 | | | | | | 2,239 |
| b. End FY 1998 | 438 | 684 | 854 | 224 | | | | | | 2,200 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,188) | |
| b. Inventory Total As Of: (30 SEP 92) | 104,587 |
| c. Authorization Not Yet In Inventory: | 17,020 |
| d. Authorization Requested In This Program: | 8,650 |
| e. Authorization Included In Following Program: (FY 1995) | 8,300 |
| f. Planned In Next Four Program Years: | 12,850 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 151,407 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 111-111 | UPGRADE AIRFIELD PAVEMENT | 96,500 SY | 3,250 | JUN 92 | DEC 93 |
| 130-142 | FIRE STATION | 15,500 SF | 2,400 | JUL 92 | OCT 93 |
| 136-664 | UPGRADE AIRFIELD LIGHTING | 26,700 LF | 3,000 | JUN 92 | DEC 93 |
| | | TOTAL: | 8,650 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRFIELD PAVEMENT | 77,000 SY | 5,300 |
| 812-223 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | 91,000 LF | 3,000 |
| | | TOTAL: | 8,300 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRFIELD PAVEMENT, PHASE 1 | 48,000 SY | 3,000 |
| 113-321 | JPATS BEDDOWN | LS | 3,450 |
| 131-111 | INFORMATION SYSTEMS FACILITY | 14,000 SF | 2,900 |
| 149-962 | CONTROL TOWER CAB | 1 EA | 1,000 |
| 610-249 | RESOURCE MANAGEMENT FACILITY | 20,000 SF | 2,500 |

10. Mission or Major Functions: A flying training wing (T-37 and T-38 aircraft) which conducts Undergraduate Pilot Training (UPT). Also, base will undergo a T-37 to T-1 aircraft conversion.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 440 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 440 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LAUGHLIN AIR FORCE BASE, TEXAS | UPGRADE AIRFIELD PAVEMENT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 111-111 | MXDP933004 | 3,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE AIRFIELD PAVEMENT | SY | 96,500 | | 2,755 |
| ASPHALTIC CONCRETE PAVEMENT | SY | 78,500 | 25 | (1,963) |
| PORTLAND CEMENT CONCRETE PAVEMENT | SY | 18,000 | 44 | ( 792) |
| SUPPORTING FACILITIES | | | | 20 |
| PAVEMENT MARKINGS | LS | | | ( 20) |
| SUBTOTAL | | | | 2,775 |
| CONTINGENCY (10%) | | | | 278 |
| TOTAL CONTRACT COST | | | | 3,053 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 183 |
| TOTAL REQUEST | | | | 3,236 |
| TOTAL REQUEST (ROUNDED) | | | | 3,250 |

10. Description of Proposed Construction: Demolition and disposal of existing asphalt surface. Rework subgrade and install subsurface drainage system as required. Provide new 4" asphalt pavement. Reconstruct 10" Portland cement concrete touch down area. Patch portions of existing asphalt; seal cracks, and provide all pavement markings.

11. REQUIREMENT: 96,500 SY ADEQUATE: 0 SUBSTANDARD: 96,500 SY

PROJECT: Upgrade airfield pavement. (Current Mission)

REQUIREMENT: High quality airfield pavements are required to continue the large number of training flights conducted in support of the undergraduate pilot training mission. Airfield lighting project to be combined with this project to minimize airfield downtime.

CURRENT SITUATION: Inexperienced pilots fly 260 sorties per day to comply with the strict flying syllabus. The existing airfield pavement was originally constructed in 1952. The last major repair work was done during the early 1970s. Moderate to severe cracking exists throughout the runways. Touchdown zones are severely damaged and require total replacement. Testing with ground penetrating radar has detected some areas of high subsurface soil moisture content. Ponding occurs on the runways and at taxiway crossings creating potential hydroplaning/loss of aircraft control. Approximately 100 manhours/month are spent on foreign object damage (FOD) control of the deteriorated pavements.

IMPACT IF NOT PROVIDED: FOD incidents and flight safety hazards will increase. Deterioration of existing airfield pavements will accelerate.

ADDITIONAL: An economic analysis was not prepared because this project directly supports a mission function for which there is no available alternative but to upgrade the airfield pavement. There is no criteria/scope for this project in Part II of Military Handbook 1190.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| LAUGHLIN AIR FORCE BASE, TEXAS | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| UPGRADE AIRFIELD PAVEMENT | MXDP933004 |

"Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LAUGHLIN AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD PAVEMENT | MXDP933004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 20 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 22 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 200 |
| (b) All Other Design Costs | 77 |
| (c) Total | 277 |
| (d) Contract | 150 |
| (e) In-house | 127 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LAUGHLIN AIR FORCE BASE, TEXAS | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 130-142 | MXDP889994 | 2,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 15,500 | 120 | 1,860 |
| SUPPORTING FACILITIES | | | | 310 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | LS | | | ( 60) |
| SITE IMPROVEMENTS | LS | | | ( 60) |
| DEMOLITION/ASBESTOS REMOVAL | SF | 14,600 | 6 | ( 90) |
| COMMUNICATIONS/EMCS | LS | | | ( 40) |
| SUBTOTAL | | | | 2,170 |
| CONTINGENCY (5%) | | | | 109 |
| TOTAL CONTRACT COST | | | | 2,279 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 137 |
| TOTAL REQUEST | | | | 2,416 |
| TOTAL REQUEST (ROUNDED) | | | | 2,400 |

10. Description of Proposed Construction: Reinforced concrete foundation and floors, masonry walls and roof system. Includes six drive-through vehicle stalls, offices, communication center, sleeping quarters, training room, physical fitness room, fire extinguisher room, kitchen, dining room, storage, utility rooms, demolition of one building, and all necessary support.
Air Conditioning: 32 Tons.

11. REQUIREMENT: 15,500 SF ADEQUATE: 0 SUBSTANDARD: 14,647 SF
PROJECT: Construct a base fire station. (Current Mission)
REQUIREMENT: A properly sized and configured fire station is required to provide fire protection and fire fighting services for base facilities and aircraft crash rescue/fire fighting. The station will house all fire fighting equipment and crews, a central fire alarm system, command and control and 24 hour crew quarters.
CURRENT SITUATION: In 1990, $160K in emergency funds were spent to make temporary structural repairs to keep the facility structurally sound and in operation. The existing facility is energy inefficient and requires excessive resources to maintain. There are insufficient stalls to house existing equipment and existing stalls are to narrow to properly accommodate currently assigned fire fighting vehicles. A crash truck (P-19) and a crash support truck (P-20) are parked outdoors causing rubber seals and other high cost equipment to fail due to excessive high temperatures. The existing Korean War vintage fire station is inadequately configured to properly accomplish the base fire fighting mission. There are no separate latrine or sleeping quarters for female fire fighters. Training and education is accomplished in the dining room. One building totalling 14,647 SF will be demolished upon completion of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LAUGHLIN AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| FIRE STATION | | MXDP889994 |

this project.
IMPACT IF NOT PROVIDED: Vehicles and equipment become unreliable when parked outdoors. Weathering of expensive vehicles reduces the operational life span and increases maintenance costs. Energy and maintenance costs will continue to escalate.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LAUGHLIN AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | MXDP889994 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 22 |
| (d) Date Design Complete | 93 OCT 18 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 144 |
| (b) All Other Design Costs | 89 |
| (c) Total | 233 |
| (d) Contract | 144 |
| (e) In-house | 89 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LAUGHLIN AIR FORCE BASE, TEXAS | UPGRADE AIRFIELD LIGHTING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 136-664 | MXDP933003 | 3,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE AIRFIELD LIGHTING | LF | 44,800 | | 806 |
| RUNWAY LIGHTING | LF | 23,500 | 18 | ( 423) |
| TAXIWAY LIGHTING | LF | 21,300 | 18 | ( 383) |
| SUPPORTING FACILITIES | | | | 1,745 |
| DISTANCE MARKERS | LS | | | ( 370) |
| THRESHOLD LIGHTING | LS | | | ( 885) |
| ALSF-1 APPROACH LIGHTING-CENTER RW | LS | | | ( 280) |
| VISUAL GLIDESLOPE INDICATOR | LS | | | ( 210) |
| SUBTOTAL | | | | 2,551 |
| CONTINGENCY (10%) | | | | 255 |
| TOTAL CONTRACT COST | | | | 2,806 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 168 |
| TOTAL REQUEST | | | | 2,974 |
| TOTAL REQUEST (ROUNDED) | | | | 3,000 |

10. Description of Proposed Construction: Replace all taxiway and runway lighting systems, including threshold lights, pre-threshold and terminating bar lights, distance markers, edge lights, approach lights and flasher systems, lighting cables and isolation transformers. A Precision Approach Path Indicator (PAPI) system will replace the existing VASI system.

11. REQUIREMENT: As required.
PROJECT: Upgrade airfield lighting. (Current Mission)
REQUIREMENT: This project is required to properly modify, upgrade and standardize existing visual navigational aid facilities to FAA and Air Force standards. This will improve operational safety, reliability and efficiency of the airfield through the use of equipment, fixtures and materials that can be adequately maintained. This lighting upgrade was identified in the 1988 Air Training Command Master Planning Study of Airfield Lighting Systems at Laughlin AFB and is required for proper training and safety of inexperienced student pilots.
CURRENT SITUATION: Inexperienced student pilots fly 260 sorties per day to comply with the strict flying syllabus. Base experienced 8 major outages in 1991, resulting in 3-4 hours of airfield downtime per incident. Antiquated visual approach slope indicator lights cost 3 times more to operate. Threshold lighting is not in accordance with the Air Force directives. The existing cables have excessive current losses associated with advanced stages of insulation deterioration.
IMPACT IF NOT PROVIDED: Airfield will be non-operational during inclement weather/night flying. Student pilots will not meet curriculum schedules when night flying is stopped. Alternate aircraft landing site is 112 miles away.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LAUGHLIN AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING | MXDP933003 |

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LAUGHLIN AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING | MXDP933003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 20 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 22 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 185 |
| (b) All Other Design Costs | 80 |
| (c) Total | 265 |
| (d) Contract | 190 |
| (e) In-house | 75 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| RANDOLPH AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 1328 | 3026 | 2547 | 173 | | | 16 | 32 | 7 | 7,129 |
| b. End FY 1998 | 1398 | 2777 | 2679 | 323 | | | 16 | 32 | 7 | 7,232 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,003) | |
| b. Inventory Total As Of: (30 SEP 92) | 163,690 |
| c. Authorization Not Yet In Inventory: | 3,410 |
| d. Authorization Requested In This Program: | 5,300 |
| e. Authorization Included In Following Program: (FY 1995) | 5,200 |
| f. Planned In Next Four Program Years: | 12,550 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 190,150 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,800 | SEP 92 | MAY 93 |
| 812-223 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LS | 2,500 | JUL 92 | DEC 93 |
| | | TOTAL: | 5,300 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 113-321 | JPATS BEDDOWN FACILITIES | LS | 3,300 |
| 136-664 | UPGRADE AIRFIELD LIGHTING | 55,700 LF | 1,900 |
| | | TOTAL: | 5,200 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | REPAIR AIRFIELD PAVEMENT RAMPS | 84,000 SY | 4,800 |
| 149-962 | CONTROL TOWER (WEST) | 1 EA | 900 |
| 179-511 | FIREMEN TRAINING FACILITY | 1 EA | 850 |
| 219-944 | BASE CIVIL ENGINEERING COMPLEX | 50,000 SF | 6,000 |

10. Mission or Major Functions: HQ ATC; a flying training wing which conducts instructor pilot training (T-37 & T-38 aircraft) and Undergraduate Navigator Training (UNT) with T-43 aircraft; AF Recruiting Service; AF Management Engineering Agency; AF Military Personnel Center; AF Civilian Personnel Management Center, AF Morale, Welfare, and Recreation Agency; AF Instrument Flight Center; AF Occupational Measurement Center; HQ San Antonio Joint Military Medical Command; and an Air Mobility Command airlift detachment (C-21 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 425 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 425 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RANDOLPH AIR FORCE BASE, TEXAS | CONTROL TOWER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.51.14 | 149-962 | TYMX943002 | 2,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONTROL TOWER | LS | | | 2,075 |
| SUPPORTING FACILITIES | | | | 440 |
| UTILITIES | LS | | | ( 120) |
| PAVEMENTS | LS | | | ( 55) |
| SITE IMPROVEMENTS | LS | | | ( 70) |
| DEMOLITION | LS | | | ( 55) |
| COMMUNICATIONS SUPPORT | LS | | | ( 55) |
| SPECIAL FOUNDATIONS | LS | | | ( 25) |
| FIRE PROTECTION SYSTEMS | LS | | | ( 10) |
| AIRFIELD WIRING | LS | | | ( 50) |
| SUBTOTAL | | | | 2,515 |
| CONTINGENCY (5%) | | | | 126 |
| TOTAL CONTRACT COST | | | | 2,641 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 158 |
| TOTAL REQUEST | | | | 2,799 |
| TOTAL REQUEST (ROUNDED) | | | | 2,800 |

10. Description of Proposed Construction: Reinforced concrete footings, special foundations, floor slab, supporting superstructure, control tower cab, operations and training areas. Facility includes all site work, utilities, mechanical, electrical, fire protection, backup power systems and an elevator. Existing tower will be demolished.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 2 EA
PROJECT: Construct an 86-foot high air traffic control tower with a 540 square foot cab. (Current Mission)
REQUIREMENT: A new air traffic control tower with larger cab to accommodate up to 11 air traffic control personnel, air traffic control equipment, crew briefings, operations, and training functions.
CURRENT SITUATION: Randolph AFB has two control towers. The west runway's control tower will be upgraded in FY97. This project replaces the east control tower constructed in 1952. The 225 SF tower cab was configured to accommodate three controllers and the standard compliment of 1950s vintage equipment. The base mission and characteristics of aircraft supported have changed since then, and more air traffic controllers and equipment are needed now handle current operations. Air traffic control operations at Randolph average 100,000 landings and take-offs annually. Randolph is home base for one hundred T-37 and T-38 pilot trainer aircraft. In FY93, the base will receive ten T-43s as part of the Mather AFB closure.
IMPACT IF NOT PROVIDED: Overcrowded cab conditions limit air traffic controller mobility and impact controller communications with pilots. These conditions, coupled with the additional effort required to safely control inexperienced pilots learning T-37 and T-38 aircraft, create

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

RANDOLPH AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONTROL TOWER | TYMX943002 |

conditions that could jeopardize pilot safety and cause aircraft loss. Additional radio equipment must be installed in the cab or in close proximity to minimize signal loss between radio and antennas which would significantly impact operational capability.

ADDITIONAL: The project is part of the Air Force Control Tower upgrade program managed by Air Force Communications Command (AFCC). Upon completion of this project, the existing tower will be demolished. The economic analysis for this project considered three alternatives: status quo, modify the existing tower, and construct a new tower. Status quo would not eliminate all deficiencies, and tower modification was determined to be technically infeasible. New construction is the only viable alternative. There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

RANDOLPH AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONTROL TOWER | TYMX943002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 09 |
| (b) Percent Complete as of Jan 93 | 45% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 168 |
| (b) All Other Design Costs | 84 |
| (c) Total | 252 |
| (d) Contract | 168 |
| (e) In-house | 84 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RANDOLPH AIR FORCE BASE, TEXAS | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 812-223 | TYMX933004 | 2,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LF | 37,600 | 37 | 1,391 |
| SUPPORTING FACILITIES | | | | 755 |
| FEEDER CABLE E & S SWITCH STA-NEW DUCT | LF | 16,000 | 40 | ( 640) |
| CIRCUIT BREAKERS AT SWITCHING STATIONS | EA | 2 | 57,500 | ( 115) |
| SUBTOTAL | | | | 2,146 |
| CONTINGENCY (10%) | | | | 215 |
| TOTAL CONTRACT COST | | | | 2,361 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 142 |
| TOTAL REQUEST | | | | 2,503 |
| TOTAL REQUEST (ROUNDED) | | | | 2,500 |

10. Description of Proposed Construction: All work necessary to convert the underground 4.16 KV electrical wiring and transformers to 13.8 KV underground electrical distribution system. Areas include Feeders L, J, and 1300 area. Construct new underground feeder between the east and south switching stations.

11. REQUIREMENT: As required.

PROJECT: Upgrade the base electrical distribution system. (Current Mission)

REQUIREMENT: Upgrade of the electrical system is required to convert to 13.8 KV service and provide reliable power in support of the ATC Training Mission at Randolph. An electrical distribution system is required that will confine power outages to manageable areas, provide needed backfeed systems, and provide modern equipment that reduce maintenance costs and meet current life safety codes.

CURRENT SITUATION: The existing 4.16 KV underground electrical distribution system has deteriorated and electrical shorts have caused 12 major power outages in 1991. Eight of these outages occurred in circuit Q which feeds the east flight line and south ramp areas which includes HQ ATC facilities. Outages lasted up to 4 hours and affected entire area due to the lack of loop feeds which would have allowed outages to be confined to one or two facilities and limited them to a few minutes. Maintenance them of the system has become manpower intensive because of obsolete equipment and the difficulty in procuring parts. This project completes the conversion of the base to a more economical 13.8 KV system, matching local commercial power and minimizing the need for substations.

IMPACT IF NOT PROVIDED: The present system will continue to deteriorate with more frequent and extensive power outages due to the inability to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| RANDOLPH AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | | TYMX933004 |

minimize the areas affected and/or duration of an outage. Mission degradation from personnel not able to perform work during outages will continue and O&M costs will continue to escalate.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of upgrade and status quo operation. Based on the net present values and benefits of the respective alternatives, upgrade was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

RANDOLPH AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | TYMX933004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 DEC 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 142 |
| (b) All Other Design Costs | 70 |
| (c) Total | 212 |
| (d) Contract | 182 |
| (e) In-house | 30 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| REESE AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.86 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 414 | 645 | 360 | 208 | | | | | | 1,627 |
| b. End FY 1998 | 425 | 611 | 358 | 227 | | | | | | 1,621 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,953) | |
| b. Inventory Total As Of: (30 SEP 92) | 91,981 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 900 |
| e. Authorization Included In Following Program: (FY 1995) | 7,200 |
| f. Planned In Next Four Program Years: | 15,290 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 115,371 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | 29 EA | 900 | JUL 92 | SEP 93 |
| | | TOTAL: | 900 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRFIELD PAVEMENTS | 110,000 SY | 4,850 |
| 136-664 | UPGRADE AIRFIELD LIGHTING | 41,800 LF | 2,350 |
| | | TOTAL: | 7,200 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 113-321 | UPGRADE AIRFIELD PAVEMENTS/ PARKING APRON | 94,000 SY | 5,200 |
| 171-213 | JPATS BEDDOWN | 30,000 SF | 3,300 |
| 179-511 | ALTER FIREMEN TRAINING FACILITY | 1 EA | 690 |
| 610-128 | BASE ADMINISTRATION FACILITY | 12,500 SF | 1,200 |
| 841-427 | WATER STORAGE TANK | 500 KG | 500 |

10. Mission or Major Functions: A flying training wing which conducts Undergraduate Pilot Training (UPT) with one T-37 squadron and one T-38 squadron. Also, base will undergo a T-37 to T-1 aircraft conversion.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 345 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 345 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| SHEPPARD AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.94 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 666 | 2295 | 1050 | 332 | 3308 | 101 | 1 | 221 | | 7,974 |
| b. End FY 1998 | 711 | 3083 | 1567 | 110 | 2985 | 20 | 61 | 1711 | 12 | 10,260 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,480) | |
| b. Inventory Total As Of: (30 SEP 92) | 247,423 |
| c. Authorization Not Yet In Inventory: | 30,590 |
| d. Authorization Requested In This Program: | 18,030 |
| e. Authorization Included In Following Program: (FY 1995) | 4,800 |
| f. Planned In Next Four Program Years: | 16,800 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 317,643 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 171-211 | ENJJPT ALTER FLIGHT TRAINING FACILITY | 40,000 SF | 2,200 | JUN 92 | OCT 93 |
| 179-511 | FIRE TRAINING FACILITY | LS | 850 | SEP 92 | NOV 93 |
| 721-315 | 7-LEVEL TRAINING DORMITORY | 156,500 SF | 14,200 | OCT 92 | DEC 93 |
| 740-884 | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 4,800 SF | 780 | JUL 92 | DEC 93 |
| | | TOTAL: | 18,030 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 136-664 | UPGRADE AIRFIELD LIGHTING | 33,400 LF | 1,300 |
| 171-621 | 7-LEVEL TRAINING CLASSROOMS | 21,000 SF | 3,500 |
| | | TOTAL: | 4,800 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 110-000 | REPAIR AIRFIELD PAVEMENTS (RAMP) | LS | 3,800 |
| 131-111 | INFORMATION SYSTEMS FACILITY | 20,000 SF | 3,000 |
| 171-623 | COVERED AIRCRAFT SUPPORT EQUIPMENT TRAINING FACILITY | 8,500 SF | 1,000 |
| 442-758 | LOGISTICS COMPLEX | 154,000 SF | 9,000 |

10. Mission or Major Functions: Training center for aircraft maintenance, civil engineering, comptroller, transportation, and health science courses; a flying training wing with three squadrons (T-37 and T-38 aircraft) that trains US and NATO pilots under the Euro-NATO Joint Jet Pilot Training Program; a medical services training group; and a field training group.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SHEPPARD AIR FORCE BASE, TEXAS | ENJJPT ALTER FLIGHT TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.47.44 | 171-211 | VNVP933005 | 2,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ENJJPT ALTER FLIGHT TRAINING FACILITY | SF | 40,000 | 29 | 1,160 |
| SUPPORTING FACILITIES | | | | 715 |
| REMOVE TYPICAL ASBESTOS MATLS | LS | | | ( 100) |
| COMMUNICATIONS SUPPORT | LS | | | ( 60) |
| UPGRADE HVAC SYSTEM | TN | 400 | 1,000 | ( 400) |
| INSTALL FIRE SPRINKLER SYSTEM | SF | 75,000 | 1 | ( 75) |
| INSTALL ELEVATOR | LS | | | ( CC) |
| SUBTOTAL | | | | 1,875 |
| CONTINGENCY (10%) | | | | 188 |
| TOTAL CONTRACT COST | | | | 2,063 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 124 |
| TOTAL REQUEST | | | | 2,187 |
| TOTAL REQUEST (ROUNDED) | | | | 2,200 |

10. Description of Proposed Construction: All work necessary to expand existing classrooms and flight training rooms. Work will include removing and reconstructing interior walls; altering electrical, mechanical and cooling systems; upgrade all latrines; install fire sprinkler system; install an elevator; asbestos removal where necessary; and provide communications support where required.
Air Conditioning: 400 Tons.

11. REQUIREMENT: 76,822 SF ADEQUATE: 36,822 SF SUBSTANDARD: 0
PROJECT: Alter flight training facility for the Euro-NATO Joint Jet Pilot Training (ENJJPT). (New Mission)
REQUIREMENT: A facility to provide adequate classrooms and flight training rooms in support of the permanent beddown of the ENJJPT mission to the year 2005. Approximately 50% of the students are from foreign countries with limited use of the English language and require quiet classrooms to maximize their comprehension and understanding of the curriculum.
CURRENT SITUATION: Sheppard is currently the Undergraduate Pilot Training (UPT) base for the ENJJPT program. Students and instructors are utilizing crowded training rooms. Students are not allowed to bring books or outer apparel into the existing flight rooms because of lack of space. Existing latrines and HVAC system are antiquated and cannot properly support the building occupants. Space to be altered becomes available with the completion of the FY91 Wing Operations Facility. To extend the ENJJPT program to the year 2005, the NATO Ministers of Defense and the US SECDEF directed the facility be altered. The ENJJPT Steering Committee subsequently approved this project and budgeted for the foreign-funded share (50%) of the cost. Funds will be available at time of award.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENJJPT ALTER FLIGHT TRAINING FACILITY | VNVP933005 |

IMPACT IF NOT PROVIDED: Will violate the country-to-country agreement with all ENJJPT nations. Students will remain in mass briefing/debriefing rooms which are overcrowded, noisy, and a distraction to individual mission briefings.

ADDITIONAL: Total project cost of $4,400,000 will be shared by Air Force and ENJJPT nations. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, alteration was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ENJJPT ALTER FLIGHT TRAINING FACILITY | VNVP933005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUN 30 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 SEP 31 |
| (d) Date Design Complete | | 93 OCT 17 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 125 |
| (b) All Other Design Costs | | 40 |
| (c) Total | | 165 |
| (d) Contract | | 115 |
| (e) In-house | | 50 |
| (4) Construction Start | | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SHEPPARD AIR FORCE BASE, TEXAS | 7-LEVEL TRAINING DORMITORY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.57.96T | 721-315 | VNVP943004A | 14,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| 7-LEVEL TRAINING DORMITORY (782 PN) | SF | 156,500 | 69 | 10,799 |
| SUPPORTING FACILITIES | | | | 1,980 |
| UTILITIES/EMCS | LS | | | ( 890) |
| SITE IMPROVEMENTS | LS | | | ( 595) |
| PAVEMENTS | LS | | | ( 295) |
| COMMUNITCATION SUPPORT | LS | | | ( 200) |
| SUBTOTAL | | | | 12,779 |
| CONTINGENCY (5%) | | | | 639 |
| TOTAL CONTRACT COST | | | | 13,418 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 805 |
| TOTAL REQUEST | | | | 14,223 |
| TOTAL REQUEST (ROUNDED) | | | | 14,200 |

10. Description of Proposed Construction: Masonry walls with brick veneer, concrete foundation and floor slabs, structural frame and metal roof system. Includes room-bath-room modules, freight elevator, linen storage and maids room, mechanical equipment room, communications, utilities, parking, and any other support facilities.
Air Conditioning: 200 Tons. Grade Mix: 782 E5-E6.

11. REQUIREMENT: 8,450 SF ADEQUATE: 6,548 SF SUBSTANDARD: 0
PROJECT: Construct 7-level training dormitory. (New Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Adequate on-base living quarters are required to accommodate enlisted student personnel attending advanced training courses and to ensure that an environment conducive to studying is available.
CURRENT SITUATION: The base has insufficient facilities to accommodate unaccompanied enlisted personnel who will attend 7-level training at Sheppard AFB. Dormitory space is available only for the current manning. Other dormitory space is currently under construction or in design to accommodate personnel moves in conjunction with the Base Closure and this requirement. This project will satisfy the total requirement for personnel receiving 7-level training.
IMPACT IF NOT PROVIDED: Adequate living quarters will not be available for personnel attending 7-level training jeopardizing the 7-level training mission.
ADDITIONAL: This project does not meet the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" and does not meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| SHEPPARD AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| 7-LEVEL TRAINING DORMITORY | | VNVP943004A |

options for accomplishing this project was done. It indicates that new construction is the only option that will meet the requirements. Because of this, a full economic analysis was not performed. A certificate of exemption has ben prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| 7-LEVEL TRAINING DORMITORY | VNVP943004A |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 OCT 15 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 31 |
| (d) | Date Design Complete | 93 DEC 20 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | YES |
| (b) | Where Design Was Most Recently Used - | SHEPPARD |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 710 |
| (b) | All Other Design Costs | 300 |
| (c) | Total | 1010 |
| (d) | Contract | 920 |
| (e) | In-house | 90 |
| (4) | Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| HILL AIR FORCE BASE, UTAH | AIR FORCE MATERIEL COMMAND | 0.98 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 660 | 4301 | 10898 | | | | | | | 15,859 |
| b. End FY 1998 | 582 | 3558 | 9045 | | | | | | | 13,185 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 8,144) | |
| b. Inventory Total As Of: (30 SEP 92) | 563,787 |
| c. Authorization Not Yet In Inventory: | 29,600 |
| d. Authorization Requested In This Program: | 8,380 |
| e. Authorization Included In Following Program: (FY 1995) | 6,900 |
| f. Planned In Next Four Program Years: | 52,600 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 661,267 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY (DBOF) | 1 EA | 880 | JUL 92 | SEP 93 |
| 831-155 | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | 1,500 KG | 5,100 | JUL 92 | NOV 93 |
| 842-245 | UPGRADE WATER DISTRIBUTION SYSTEM | 13,300 LF | 2,400 | APR 92 | SEP 93 |
| | | TOTAL: | 8,380 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 130-142 | ADD TO AND ALTER FIRE STATION | 8,050 SF | 1,100 |
| 821-113 | UPGRADE STEAM DISTRIBUTION SYSTEM | LS | 2,400 |
| 880-000 | CORRECT FIRE PROTECTION DEFICIENCIES | 930,000 SF | 3,400 |
| | | TOTAL: | 6,900 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 132-133 | RANGE INSTRUCTIONAL SITES | 10 EA | 6,000 |
| 171-620 | MOBILITY TRAINING AND SUPPORT FACILITY | 48,000 SF | 4,000 |
| 441-758 | SUPPLY SUPPORT FACILITY | 65,000 SF | 4,600 |
| 610-144 | MUNITIONS MAINTENANCE CONTROL FACILITY | 14,000 SF | 2,400 |
| 610-243 | COMBAT SUPPORT CENTER | 60,000 SF | 7,000 |

10. Mission or Major Functions: Ogden Air Logistics Center which is reponsible for logistics management, support and depot-level maintenance of F-4 and F-16 aircraft, Minuteman and Peacekeeper ICBM's, Maverick missiles, and laser-guided bombs; a test group (HH-1 and MH-60 helicopters, and DC/HC/NC 130 aircraft); an Air Combat Command fighter wing with three F-16 squadrons; and an Air Force Reserve fighter wing (F-16 aircraft).

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| HILL AIR FORCE BASE, UTAH | AIR FORCE MATERIEL COMMAND | 0.98 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of | | | | | | | | | | |
| b. End FY | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Four Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 4,000 |
| b. Water pollution: | 6,200 |
| c. Occupational safety and health: | 2,300 |
| d. Other Environmental: | 8,000 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HILL AIR FORCE BASE, UTAH | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-155 | KRSM943032 | 5,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | KG | 1,500 | 2,290 | 3,435 |
| SUPPORTING FACILITIES | | | | 945 |
| UTILITIES | LS | | | ( 295) |
| SITE IMPROVEMENTS | LS | | | ( 155) |
| STORAGE BUILDING | SF | 1,600 | 50 | ( 80) |
| REMOVE CONTAMINATED SOIL | LS | | | ( 295) |
| O&M MANUAL, TRAINING AND START-UP | LS | | | ( 120) |
| SUBTOTAL | | | | 4,380 |
| CONTINGENCY (10%) | | | | 438 |
| TOTAL CONTRACT COST | | | | 4,818 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 289 |
| TOTAL REQUEST | | | | 5,107 |
| TOTAL REQUEST (ROUNDED) | | | | 5,100 |

10. Description of Proposed Construction: Remove concrete tanks, install new processing equipment and automated control system, and replace instrumentation. Includes necessary piping, accesories and site work, removal of existing tanks, construction of a 1600 SF storage building, removal of contaminated soil as required, and 180 day start-up operation and system certification.

11. REQUIREMENT: 1,500 KG ADEQUATE: 0 SUBSTANDARD: 1,500 KG

PROJECT: Upgrade an industrial wastewater treatment plant. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. An adequate industrial wastewater treatment plant (IWTP) is required to remove pollutants from industrial wastewater generated from the depot's maintenance activities, including aircraft and jet engine overhaul, metal plating, painting and paint stripping. The treatment process must produce an effluent which meets the discharge pretreatment limits set by the North Davis County Sewer District. It is anticipated by 1995 that these pretreatment limits will be much lower as North Davis County further controls user discharges to allow themselves to meet lower Clean Water Act limits for toxicity and hazardous waste limits on sludge refuse.

CURRENT SITUATION: The existing IWTP, built in 1970 and expanded in 1979, operates between 300 and 600 gallons per minute (gpm). It cannot consistently remove metals to the low concentrations required by the National Pollution Discharge Elimination System permit prior to discharge into a local waterway. This permit expires December 31, 1994, at which time the discharge limits governing Hill will likely be far more restrictive. District officials have advised base officials that new limits will be provided by August 1993. The clarifiers are too small to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| HILL AIR FORCE BASE, UTAH | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | | KRSM943032 |

provide sufficient settling of heavy metals at flows above 350 gpm. The emergency spill tank does not have capacity to store over one hour's accumulation of wastes, and the grit chamber must be manually cleaned four or five times per year. The manual control system does not allow for real time monitoring of the plant's operating parameters, resulting in delays of up to 48 hours before necessary adjustments can be made. This situation resulted in 12 days of noncompliance leading to two notices of violation in FY 1991.

IMPACT IF NOT PROVIDED: The capability of the IWTP to stay in compliance with its permit limits, the Clean Water Act and RCRA will be in jeopardy. Fines or other enforcement actions, including shutdown or reduction of depot maintenance activities that generate wastewater, are a distinct possibility if the project is not provided.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or Air Force Manual 86-2, "Standard Facility Requirements". A life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation, new construction, and contracting out the function). This analysis indicates that alteration is clearly the best alternative over the life of the facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | KRSM943032 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 02 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 NOV 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | HILL |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 300 |
| (b) All Other Design Costs | 201 |
| (c) Total | 501 |
| (d) Contract | 399 |
| (e) In-house | 102 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HILL AIR FORCE BASE, UTAH | UPGRADE WATER DISTRIBUTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 842-245 | KRSM913003 | 2,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE WATER DISTRIBUTION SYSTEM | LS | | | 1,819 |
| WATER DISTRIBUTION MAINS | LF | 15,800 | 93 | (1,469) |
| RESERVOIR COVER | LS | | | ( 350) |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 140) |
| SUBTOTAL | | | | 2,059 |
| CONTINGENCY (10%) | | | | 206 |
| TOTAL CONTRACT COST | | | | 2,265 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 136 |
| TOTAL REQUEST | | | | 2,401 |
| TOTAL REQUEST (ROUNDED) | | | | 2,400 |

10. Description of Proposed Construction: Install 15,800 feet of water main, including necessary valves, manholes, hydrants, and corrosion control; install additional valves on existing pipe; replace cover on 3.5 million gallon reservoir; restore pavements and landscape.

11. REQUIREMENT: As required.

PROJECT: Upgrade water distribution system. (Current Mission)

REQUIREMENT: The water distribution system must be upgraded to meet pressure and fire protection flow requirements for depot aircraft maintenance, munitions storage area and warehouse complex. Larger primary water mains from the base's two largest reservoirs (4.5 million gallon total capacity) to the munitions storage area are needed to meet fire flow and pressure requirements. New valves are needed to isolate sections of water mains when repair is required. A rigid cover (180 feet by 120 feet) for the 3.5 million gallon reservoir is needed to provide a reliable debris barrier, prevent algae growth and protect water resources

CURRENT SITUATION: The primary water mains from the bases's two largest reservoirs are not sized for pressure and fire flow requirements resulting from additional facility construction at Hill AFB over the last 25 years. Further, the water mains have accumulated mineral deposits that reduce the effective size of the pipe. Even though water storage capacity is adequate, the means of transmission is deficient. A computer analysis shows that, without larger lines to the two remote reservoirs, the reservoir serving the warehouse area (1.25 million gallons) could be drawn down at a rate of 5300 gallons per minute during peak demand periods. In less than an hour the tank level would drop below the 1 million gallons required for firefighting in this area. The lack of adequate pressure and fire flow has been given a Fire Safety Deficiency (FSD) priority 2-C-III.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE WATER DISTRIBUTION SYSTEM | KRSM913003 |

The existing 3.5 million gallon reservoir has a thin polypropylene floating cover, which is highly susceptible to rips and tears during freezing conditions and must be replaced every two years. Floating covers are rarely used on potable water reservoirs as they are difficult to maintain, easily penetrated and have a high risk of contamination. County health officials have stated concerns that the chemicals used on the adjacent golf course may contami- nate the reservoir.
IMPACT IF NOT PROVIDED: The depot maintenance and warehouse areas will continue to be compromised due to the lack of adequate fire flow and pressure. A large fire could burn unsuppressed due to lack of water.
ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide", or AFM 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, a full economic analysis was not needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE WATER DISTRIBUTION SYSTEM | KRSM913003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 APR 23 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 JUL 30 |
| (d) Date Design Complete | | 93 SEP 11 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 128 |
| (b) All Other Design Costs | | 141 |
| (c) Total | | 269 |
| (d) Contract | | 184 |
| (e) In-house | | 85 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | AIR COMBAT COMMAND | 0.92 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 2259 | 6511 | 1859 | 64 | 106 | 10 | 3 | 11 | 19 | 10,842 |
| b. End FY 1998 | 2185 | 6612 | 1863 | 64 | 106 | 10 | 3 | 11 | 19 | 10,873 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,440) | |
| b. Inventory Total As Of: (30 SEP 92) | 249,505 |
| c. Authorization Not Yet In Inventory: | 19,000 |
| d. Authorization Requested In This Program: | 17,823 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 19,300 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 305,628 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 130-142 | FIRE STATION | 23,700 SF | 3,850 | JUL 91 | AUG 93 |
| 141-745 | ADD TO AND ALTER CARS OPERATIONS FACILITY | LS | 5,373 | NOV 92 | AUG 93 |
| 219-944 | BASE ENGINEERING COMPLEX, PHASE II | LS | 4,000 | OCT 92 | JUL 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | LS | 500 | NOV 92 | AUG 93 |
| 851-142 | RESTORE KING STREET BRIDGE | LS | 4,100 | OCT 91 | MAY 93 |
| | | TOTAL: | 17,823 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 211-159 | ACFT CORROSION CONTROL FCLTY | 30,000 SF | 5,500 |
| 214-425 | ADD TO VEHICLE MAINTENANCE FACILITY | 5,200 SF | 1,100 |
| 721-315 | ALTER TRANSIENT DORMITORY | 140 PN | 2,000 |
| 740-674 | PHYSICAL FITNESS CENTER | 24,000 SF | 2,500 |
| 740-884 | CHILD DEVELOPMENT CENTER | 18,000 SF | 2,700 |

10. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with three fighter squadrons (F-15 aircraft); an aircraft delivery group; an air intelligence group; the Air Combat Operations School; and an Air Mobility Command airlift detachment with C-21 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 4,000 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 130-142 | MUHJ923032 | 3,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 23,700 | 95 | 2,252 |
| SUPPORTING FACILITIES | | | | 1,185 |
| UTILITIES | LS | | | ( 220) |
| SITE IMPROVEMENTS | LS | | | ( 230) |
| PAVEMENTS | LS | | | ( 240) |
| SPECIAL FOUNDATIONS | LS | | | ( 95) |
| COMMUNICATIONS SUPPORT | LS | | | ( 115) |
| DEMOLITION | SF | 18,900 | 5 | ( 95) |
| ASBESTOS REMOVAL | SF | 18,900 | 10 | ( 190) |
| SUBTOTAL | | | | 3,437 |
| CONTINGENCY (5%) | | | | 172 |
| TOTAL CONTRACT COST | | | | 3,609 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 217 |
| TOTAL REQUEST | | | | 3,826 |
| TOTAL REQUEST (ROUNDED) | | | | 3,850 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor, masonry walls, and pitched roof. Includes vehicle stalls, offices, communication center, sleeping quarters, training rooms, exercise room, kitchen, dining room, storage and utility room, parking, access pavements, demolition and all necessary support.
Air Conditioning: 70 Tons.

11. REQUIREMENT: 23,700 SF ADEQUATE: 0 SUBSTANDARD: 18,900 SF
PROJECT: Construct a central fire station. (Current Mission)
REQUIREMENT: A properly sized and configured fire station is required to provide fire protection for base facilities and aircraft crash rescue. The station must provide space to house fire fighting equipment and crews, a central fire alarm system, command and control, 24-hour crew quarters, exercise room, storage for operating supplies and chemical agents, and maintenance functions.
CURRENT SITUATION: The existing facility is experiencing structural failure (deformation/buckling of columns, footings, slabs, ceiling and walls) due to the southward thrust of ramp pavement from thermal expansion/subsurface drift. Fire fighters that work and sleep (24 hours/day) in this structurally unsound facility are exposed to a serious safety hazard. Even after the building had been shored/reinforced with beams, there is still structural shifting and movement in the facility. The most recent corrective action was attempted in 1990. This effort to repair the footings has already failed due to the unprecedented ground movement. An independent engineering consulting firm has confirmed that inevitable structural failure will occur. The facility is an undersized Korean War-era concrete masonry building that will be demolished upon completion of this project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | MUHJ923032 |

IMPACT IF NOT PROVIDED: Personnel and equipment will continue to be placed under unnecessary and unacceptable risk. The Air Force will continue to assume the liability for the safety of personnel in a building that is experiencing structural failure.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | MUHJ923032 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 JUL 01 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 91 OCT 04 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 197 |
| (b) All Other Design Costs | 149 |
| (c) Total | 346 |
| (d) Contract | 231 |
| (e) In-house | 115 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | ADD TO AND ALTER CARS OPERATIONS FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.13.17 NFIP | 141-745 | MUHJ943010 | 5,373 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER CARS OPERATIONS | | | | |
| FACILITY | SF | 62,900 | | 3,419 |
| CONVERT TO HARDWARE MAINT (SCIF) | SF | 10,400 | 120 | (1,248) |
| CONVERT TO DGS WAREHOUSE | SF | 22,000 | 47 | (1,034) |
| CONVERT TO DGS HANGAR BAY | SF | 17,000 | 20 | ( 340) |
| CONVERT TO TRAINING | SF | 13,500 | 59 | ( 797) |
| SUPPORTING FACILITIES | | | | 1,185 |
| UTILITIES | LS | | | ( 495) |
| PAVEMENTS | LS | | | ( 295) |
| SITE IMPROVEMENTS | LS | | | ( 395) |
| SUBTOTAL | | | | 4,604 |
| CONTINGENCY (10%) | | | | 460 |
| TOTAL CONTRACT COST | | | | 5,064 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 304 |
| TOTAL REQUEST | | | | 5,368 |
| TOTAL REQUEST (ROUNDED) | | | | 5,373 |

10. Description of Proposed Construction: All electrical, structural and mechanical work to convert various existing facilities to operations, training, and maintenance support areas for the Contingency Airborne Reconnaissance System (CARS). Certain facilities will contain Sensitive Compartmented Information Facility (SCIF) areas. Work also includes all sitework, pavements and utilities required for support.
Air Conditioning: 350 Tons.

11. REQUIREMENT: 78,000 LS ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Add to and Alter existing facilities for the Contingency Airborne Reconnaissance System (CARS) complex. (New Mission)
REQUIREMENT: Permanent facilities of adequate size and configuration are required to accommodate the beddown of the CARS Deployable Ground Station (DGS). Adequate facilities are essential to support training, operational and maintenance missions of the DGS. CARS is a unique system that is capable of collection, processing and exploitation of multi-source intelligence with multi-level security. This system is needed to enhance theater commanders' ability to most effectively manage tactical assets on the battlefield through near-real-time intelligence. In garrison, the system will support requirements such as counterdrug and treaty verification. Facilities must be prepared in FY94 for initial system receipt.
CURRENT SITUATION: CARS was originally programmed for beddown in Europe. Congress cancelled the European beddown and directed a US based ground station with the capability to provide deployable assets directly to theater commanders. The facilities proposed for alteration for CARS were vacated in late 1991. These facilities are not currently configured to support the CARS mission and need to be reconfigured.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CARS OPERATIONS FACILITY | MUHJ943010 |

IMPACT IF NOT PROVIDED: CARS DGS is the only system in existence, or currently programmed, that will be capable of collection, processing, and exploitation of signal intelligence and imagery intelligence with multi-level security. Without adequate facilities to support the mission, the US defense posture will be degraded by the loss of this unparalleled capability to provide dynamic, responsive intelligence support to air component/theater commanders.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CARS OPERATIONS FACILITY | MUHJ943010 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 AUG 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 298 |
| (b) All Other Design Costs | 5 |
| (c) Total | 303 |
| (d) Contract | 275 |
| (e) In-house | 28 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | BASE ENGINEERING COMPLEX, PHASE II |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 219-944 | MUHJ953004 | 4,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEERING COMPLEX, PHASE II | SF | 55,000 | | 3,280 |
| BCE MANAGEMENT FACILITY | SF | 30,000 | 76 | (2,280) |
| BCE STORAGE FACILITY | SF | 25,000 | 40 | (1,000) |
| SUPPORTING FACILITIES | | | | 275 |
| UTILITIES | LS | | | ( 205) |
| PAVEMENTS | SY | 1,100 | 32 | ( 35) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| SUBTOTAL | | | | 3,555 |
| CONTINGENCY (5%) | | | | 178 |
| TOTAL CONTRACT COST | | | | 3,733 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 243 |
| TOTAL REQUEST | | | | 3,976 |
| TOTAL REQUEST (ROUNDED) | | | | 4,000 |

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, pre-engineered metal frames, split face concrete masonry veneer, pitched standing seam metal roofs and facias. Project includes all utilities, pavements and site improvements.

11. REQUIREMENT: 100,484 LS ADEQUATE: 12,916 LS SUBSTANDARD: 93,369 LS
PROJECT: Construct Base Civil Engineer (BCE) complex, Phase II. (Current Mission)
REQUIREMENT: Adequate BCE facilities are required to plan, program and implement projects to maintain, repair, operate and construct facilities, pavements, and utility systems in support of the base, HQ ACC, and Air Force missions. This project is a required follow-on to the FY 93 MILCON project, "Base Civil Engineering Complex Phase 1."
CURRENT SITUATION: BCE shop and warehouse functions are housed in facilities that are undersized, functionally misconfigured and unsuitable for upgrade for their current use. Existing BCE functions are dispersed throughout 20 facilities on base. The BCE functions are being displaced by the standup of Air Combat Command and the resulting requirement for facilities in the headquarters area. These facilities are located in the congested headquarters administrative area; narrow streets, parked cars, large delivery vehicles, and special purpose vehicles make access difficult and create numerous traffic hazards. Overcrowded and cramped shops make it difficult and unsafe for the operation of machinery and power tools. Substandard covered storage facilities do not accommodate modern material storage and handling practices. Material storage is inadequate, and as a result, materials requiring indoor storage must be stored outdoors, which accelerates deterioration.
IMPACT IF NOT PROVIDED: BCE personnel will continue to work in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| LANGLEY AIR FORCE BASE, VIRGINIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| BASE ENGINEERING COMPLEX, PHASE II | | MUHJ953004 |

substandard, inefficient, and overcrowded facilities which will adversely impact their capability to support missions of the 1st Fighter Wing, HQ ACC and other units assigned to this installation.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing all known alternatives. Based on the net present values and benefits of the respective alternatives new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX, PHASE II | MUHJ953004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 OCT 15 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 92 NOV 23 |
| | (d) Date Design Complete | 93 JUL 15 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 242 |
| | (b) All Other Design Costs | 110 |
| | (c) Total | 352 |
| | (d) Contract | 242 |
| | (e) In-house | 110 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | RESTORE KING STREET BRIDGE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96C | 851-142 | MUHJ933001 | 4,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RESTORE KING STREET BRIDGE | LF | 1,850 | 1,920 | 3,552 |
| SUPPORTING FACILITIES | | | | 140 |
| UTILITIES | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| DEMOLITION | SF | 25,000 | 4 | ( 100) |
| SUBTOTAL | | | | 3,692 |
| CONTINGENCY (5%) | | | | 185 |
| TOTAL CONTRACT COST | | | | 3,877 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 233 |
| TOTAL REQUEST | | | | 4,110 |
| TOTAL REQUEST (ROUNDED) | | | | 4,100 |

10. Description of Proposed Construction: Replace entire concrete deck, sidewalk, parapets and hardware. Replace all superstructure steel girders, girder bearing pads and anchor bolts. Repair damaged pilings. Install elastomeric bearing pad under bridge seats and new expansion joint assemblies. Replace all corroded utility supports and perform all necessary support.

11. REQUIREMENT: As required.

PROJECT: Restore King Street Bridge. (Current Mission)

REQUIREMENT: An adequate, safe access bridge is required at the King Street entrance to Langley AFB to accommodate vehicular traffic entering and leaving the base. The King Street Bridge crosses the Back River and connects the eastern portion of Langley AFB with the city of Hampton. It is the primary route from Hampton to the main family housing area on Langley and to the Air Combat Command Headquarters complex. Large numbers of assigned personnel use the bridge to commute to and from major residential areas in Hampton. Approximately 13,000 vehicles cross the bridge each day. Additionally, the city strongly supports continued viability of the bridge. Alternative routes through the city to Langley are already overburdened. If the bridge was not available, increased traffic on alternative city streets would create long delays, adversely impacting residents and businesses. Weight limits on the bridge have been reduced to a level where fire trucks, semi-trailers, fuel trucks and construction vehicles must take longer routes to use other entrances.

CURRENT SITUATION: The King Street Bridge is in iminent danger of structural failure due to severe and rapidly accelerating deterioration. It must be repaired immediately to avert failure and the real possibility of injuries and property damage. The bridge was constructed in 1934 and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RESTORE KING STREET BRIDGE | MUHJ933001 |

has undergone no significant repairs since it was built. Traffic on the bridge has been progressively restricted since 1987 due to rapid, persistent deterioration of major components. Three engineering investigations have been conducted since 1987. These investigations confirm that deterioration is accelerating because of the age of the span and the highly corrosive salt water environment. A December 1991 investigation found that up to 35% of the deterioration has occurred since 1987. Base engineers have been forced to progressively reduce weight limits on the bridge from a 20-ton design limit to 14 tons and then 10 tons following 1987 and 1991 structural investigations. The Corps of Engineers has advised base officials that current restrictions will not provide a reliable margin of safety after December 1993. The following are examples of the major deterioration identified in engineering investigations: Sections of the concrete deck have extensive transverse cracks, many of which go completely through the deck; expansion joints in the deck are no longer functioning, and slabs adjacent to the joints have consequently received severe damage; this damage is accelerating, particularly at the ends of the span. The bridge superstructure is extensively damaged from wear and the corrosive environment; steel girders, flanges and rivets that attach the sole plates to the beams are badly rusted; (Continued below in ADDITIONAL)

IMPACT IF NOT PROVIDED: Critical access to Langley AFB will continue to be limited by vehicle weight restrictions. Ongoing deterioration will shortly result in closure of the bridge in order to avoid structural failure and possible loss of life. Closing the bridge would also result in unacceptable traffic impacts to the city of Hampton and would inconvenience bridge users by forcing them to drive 4.5 miles further to the next nearest entrance to the base.

ADDITIONAL: bridge stiffeners are also severely corroded, and in some areas have rusted away completely; this, in addition to severe girder corrosion, presents a concern for lateral stability and shear buckling resistance at the girder ends; concrete on the bottom surface of the deck is grossly spalled which presents a safety hazard to boaters crossing under the bridge and exposes reinforcing bars to corrosion.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RESTORE KING STREET BRIDGE | MUHJ933001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 OCT 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 14 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 240 |
| (b) All Other Design Costs | 170 |
| (c) Total | 410 |
| (d) Contract | 300 |
| (e) In-house | 110 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| FAIRCHILD AIR FORCE BASE, WASHINGTON | AIR COMBAT COMMAND | 1.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 562 | 3570 | 495 | 140 | 372 | 22 | | | | 5,161 |
| b. End FY 1998 | 709 | 3923 | 576 | 140 | 372 | 22 | | | | 5,742 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,060) | |
| b. Inventory Total As Of: (30 SEP 92) | 280,299 |
| c. Authorization Not Yet In Inventory: | 34,960 |
| d. Authorization Requested In This Program: | 3,500 |
| e. Authorization Included In Following Program: (FY 1995) | 9,300 |
| f. Planned In Next Four Program Years: | 35,730 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 363,789 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-621 | INTELLIGENCE TECHNICAL TRAINING FACILITY | 14,400 SF | 3,500 | SEP 92 | JUN 93 |
| | | TOTAL: | 3,500 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 218-712 | ADD TO AND ALTER MUNITIONS SUPPORT EQUIPMENT SHOP/STORAGE | 16,850 SF | 1,400 |
| 442-257 | HAZARDOUS MATERIALS STORAGE FACILITY | 7,000 SF | 1,400 |
| 610-243 | SURVIVAL TRAINING SUPPORT COMPLEX | 42,000 SF | 5,000 |
| 871-183 | STORM DRAINAGE FACILITIES | LS | 1,500 |
| | | TOTAL: | 9,300 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 121-122 | ADD TO HYDRANT FUELING SYSTEM | 10 OL | 4,200 |
| 124-000 | UPGRADE POL DIKES AND BASINS | LS | 2,330 |
| 131-111 | COMMUNICATIONS FACILITY | 18,000 SF | 3,450 |
| 214-425 | LOGISTICS COMPLEX | 22,200 SF | 1,850 |
| 822-265 | UPGRADE STEAM DISTRIBUTION SYSTEM | LS | 3,500 |

10. Mission or Major Functions: A bomb wing which includes one B-52 squadron and a combat air rescue detachment with UH-1 helicopters; an Air Mobility Command air refueling group with two KC-135 squadrons; an Air National Guard air refueling wing (KC-135 aircraft); an Air Training Command combat crew training group (survival training school); and an Air Force Space Command satellite control squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 5,034 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FAIRCHILD AIR FORCE BASE, WASHINGTON | INTELLIGENCE TECHNICAL TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 171-621 | GJKZ920029 | 3,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| INTELLIGENCE TECHNICAL TRAINING FACILITY | SF | 14,400 | 160 | 2,304 |
| SUPPORTING FACILITIES | | | | 820 |
| UTILITIES | LS | | | ( 165) |
| PAVEMENTS | LS | | | ( 105) |
| SITE IMPROVEMENTS | LS | | | ( 80) |
| DEMOLISH BUILDINGS | LS | | | ( 15) |
| SECURITY UPGRADE REQUIREMENTS | LS | | | ( 455) |
| SUBTOTAL | | | | 3,124 |
| CONTINGENCY (5%) | | | | 156 |
| TOTAL CONTRACT COST | | | | 3,280 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 197 |
| TOTAL REQUEST | | | | 3,477 |
| TOTAL REQUEST (ROUNDED) | | | | 3,500 |

10. Description of Proposed Construction: Masonry walls, concrete foundations and floor slabs, standing seam metal roof, utilities and other necessary support. Special security construction needed to meet Top Secret clearance requirements.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 14,400 SF ADEQUATE: 0 SUBSTANDARD: 4,196 SF
PROJECT: Construct an intelligence technical training facility for the Special Survival Training Program (SSTP). (Current Mission)
REQUIREMENT: A major objective of HQ USAF is to increase the manning, course load, and number of students in the Special Survival Training Program and provide quality instruction for military and civilian members throughout DoD. A properly designed and furnished facility is essential to meet unique mission requirements and provide a quality learning environment to ensure adequacy of training in this complex, HQ USAF-directed, special training program. This facility should be located at Fairchild because courses taught in adjacent training facilities are prerequisites to the Special Survival Training Program. Collocation saves spending additional TDY travel funds for students. Furthermore, these facilities are to be shared with Air Training Command for special access exercises. The isolated location of these training facilities is considered by JCS to be critical to the security and effectiveness of their exercises.
CURRENT SITUATION: The present academic facility originally was designed as a weapon assembly building. It is of Korean War vintage and located within a weapons storage area's Quantity Distance (QD) zone. Air Force regulations prohibit this type of facility in a QD zone, so any major addition is strongly discouraged. This building currently supports a

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| FAIRCHILD AIR FORCE BASE, WASHINGTON | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| INTELLIGENCE TECHNICAL TRAINING FACILITY | | GJKZ920029 |

full-time staff of 13 and an average of 15 students per week. Restroom facilities are shared by all male/female instructors and students. The instructor office area is one large room with partitions. These conditions have very direct, negative impacts on the research, study, and lesson preparation necessary for each instructor on a daily basis. Supervisors do not have adequate private areas to provide subordinate counseling. Vast amounts of research materials are scattered throughout the building, exemplifying the need for a dedicated library/research room. The future installation of a STU-111 (secure telephone) will necessitate a secure, private room for classified discussions. Because of the class sizes and differences in the classes taught, two small and two large classrooms are required. Only one classroom currently is available, and instructors must conduct two of their courses in the program via Mobile Training Team to locations worldwide. The SSTP presently is unable to provide resident training to the DoD community requiring this instruction. This places DoD and the US Government in a politically vulnerable position, prevents maintenance of optimum DoD readiness of operational forces, and directly affects capability to meet objectives.

IMPACT IF NOT PROVIDED: Expansion to meet Joint Services, multi-course program requirements cannot be achieved without this facility. Additionally, to continue in the present facility means that instructor and student productivity will continue to be degraded. This project is in concert with the Air Training Command and Survival School Master Plan. If not approved, the Special Survival Training Program will remain at its present location, isolated from the necessary logistical support provided by the 3636 CCTW new survival complex, training facilities, billeting, administration, and supply.

ADDITIONAL: There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INTELLIGENCE TECHNICAL TRAINING FACILITY | GJKZ920029 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 JUN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 219 |
| (b) All Other Design Costs | 182 |
| (c) Total | 401 |
| (d) Contract | 267 |
| (e) In-house | 134 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | AIR MOBILITY COMMAND | 1.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 514 | 3536 | 1194 | 2 | 45 | 27 | 2 | | | 5,320 |
| b. End FY 1998 | 414 | 3555 | 1158 | 2 | 45 | 27 | 2 | | | 5,203 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 5,745) | |
| b. Inventory Total As Of: (30 SEP 92) | 187,188 |
| c. Authorization Not Yet In Inventory: | 2,540 |
| d. Authorization Requested In This Program: | 10,900 |
| e. Authorization Included In Following Program: (FY 1995) | 15,350 |
| f. Planned In Next Four Program Years: | 18,770 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 234,748 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORIES (DBOF) | 259 PN | 6,500 | JUN 92 | AUG 93 |
| 740-884 | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | 31,000 SF | 4,400 | MAY 92 | DEC 93 |
| | | TOTAL: | 10,900 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 149-962 | CONTROL TOWER | 1 EA | 2,650 |
| 610-000 | ADD TO AND ALTER CONSOLIDATED SUPPORT CENTER | 67,940 SF | 5,900 |
| 721-312 | ALTER DORMITORIES | 280 PN | 6,800 |
| | | TOTAL: | 15,350 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 219-000 | BASE ENGINEERING COMPLEX | 125,175 SF | 8,600 |
| 219-944 | BASE MAINTENANCE SHOP | 2,400 SF | 470 |
| 411-135 | REPAIR JET FUEL STORAGE | LS | 6,700 |
| 411-135 | IMPROVE JET FUEL STORAGE | LS | 2,000 |
| 610-243 | GROUP HEADQUARTERS FACILITY | 5,900 SF | 1,000 |

10. Mission or Major Functions: An airlift wing which includes three C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; Air Combat Command Northwest Air Defense Sector; and an Air National Guard fighter interceptor detachment (F-15 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 8,700 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | PQWY933030 | 6,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 63,800 | | 5,075 |
| ALTERATION | SF | 49,600 | 82 | (4,067) |
| ADDITION (BALCONIES) | SF | 14,200 | 71 | (1,008) |
| SUPPORTING FACILITIES | | | | 485 |
| UTILITIES | LS | | | ( 245) |
| PAVEMENTS | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 120) |
| SUBTOTAL | | | | 5,560 |
| CONTINGENCY (10%) | | | | 556 |
| TOTAL CONTRACT COST | | | | 6,116 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 367 |
| TOTAL REQUEST | | | | 6,483 |
| TOTAL REQUEST (ROUNDED) | | | | 6,500 |

10. Description of Proposed Construction: Upgrade existing facility and construct addition for balcony entrances. Includes room-bath-room configuration, insulation and sound attenuation, utilities and other necessary support.

11. REQUIREMENT: 1,770 PN ADEQUATE: 918 PN SUBSTANDARD: 819 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: Existing unaccompanied personnel housing is far below current DOD standards. These dormitories have central latrines, inadequate control of heating, insufficient noise attenuation and lack the necessary amenities to adequately house enlisted personnel. This project will upgrade two facilities to meet current DOD standards and is phase three of a five-phase program to upgrade dorms at McChord. Current dormitory occupancy rate at McChord is 96 percent.
IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to be a contributing factor to low morale, reduced productivity and dissatisfaction with Air Force life for unaccompanied enlisted personnel.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation and new

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MCCHORD AIR FORCE BASE, WASHINGTON | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES (DBOF) | | PQWY933030 |

construction). This analysis indicates renovation is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | PQWY933030 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 JUN 03 |
| | (b) Percent Complete as of Jan 93 | 30% |
| | (c) Date 35% Designed | 93 FEB 19 |
| | (d) Date Design Complete | 93 AUG 31 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 295 |
| | (b) All Other Design Costs | 266 |
| | (c) Total | 561 |
| | (d) Contract | 393 |
| | (e) In-house | 168 |
| (4) | Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 740-884 | PQWY933011 | 4,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | SF | 33,400 | | 3,282 |
| CHILD DEVELOPMENT CENTER (A) | SF | 16,000 | 100 | (1,600) |
| CHILD DEVELOPMENT CENTER (B) | SF | 15,000 | 100 | (1,500) |
| MECHANICAL SUPPORT FACILITY | SF | 2,400 | 76 | ( 182) |
| SUPPORTING FACILITIES | | | | 650 |
| SITE IMPROVEMENTS | LS | | | ( 155) |
| UTILITIES | LS | | | ( 295) |
| PAVEMENTS | LS | | | ( 160) |
| DEMOLITION/ASBESTOS REMOVAL | SF | 3,200 | 13 | ( 40) |
| SUBTOTAL | | | | 3,932 |
| CONTINGENCY (5%) | | | | 197 |
| TOTAL CONTRACT COST | | | | 4,129 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 248 |
| TOTAL REQUEST | | | | 4,377 |
| TOTAL REQUEST (ROUNDED) | | | | 4,400 |

10. Description of Proposed Construction: All structural, electrical and mechanical work necessary to construct two child development center facilities. Includes classrooms, kitchen, multipurpose rooms, nurseries, administrative space, mechanical equipment room and necessary support. Air Conditioning: 40 Tons.

11. REQUIREMENT: 50,550 SF ADEQUATE: 19,564 SF SUBSTANDARD: 3,200 SF
PROJECT: Construct a child development center complex. (Current Mission)
REQUIREMENT: A complex which provides adequate space and environment for child development requirements and an atmosphere conducive to the needs of young dependent children of assigned military and civilian personnel. McChord has a total of 674 children of military and civilian families eligible for day care. Current space criteria restricts the size of child development centers to accommodate only 305 children in one facility. In order to provide the required space to support eligible children at this installation, two facilities are needed.
CURRENT SITUATION: The current facilities accommodate only 38 percent of the demand for child care. Changes in the make-up of the military and civilian population have increased the need for full-day child care development services. Single parents, dual working couples, and working spouses have changed the focus from a recreational support activity to a mission support program. Because more children stay at the center ten hours a day, five days a week, improved developmental care facilities must provide more adequate indoor and outdoor play space, learning centers, sleeping facilities and kitchen/food service areas. Expanded program requirements cannot be provided and the increased demand for child care cannot be met due to lack of space. Current waiting list for full-time day care is 384 children. Certified home care is available (35 homes care

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | POWY933011 |

for 210 children); however, additional facilities are required. One substandard facility will be disposed of upon completion of this project.
IMPACT IF NOT PROVIDED: Lack of quality and affordable child care contributes to employee absenteeism, low morale and has a negative impact on the military and civilian workforces.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | PQWY933011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 29 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 93 JUL 15 |
| (d) Date Design Complete | 93 DEC 04 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 273 |
| (b) All Other Design Costs | 114 |
| (c) Total | 387 |
| (d) Contract | |
| (e) In-house | 387 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | AIR COMBAT COMMAND | 1.08 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 559 | 3030 | 557 | | | | | | | 4,146 |
| b. End FY 1998 | 546 | 2920 | 574 | | | | | | | 4,040 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,610) | |
| b. Inventory Total As Of: (30 SEP 92) | 214,988 |
| c. Authorization Not Yet In Inventory: | 10,750 |
| d. Authorization Requested In This Program: | 12,640 |
| e. Authorization Included In Following Program: (FY 1995) | 1,700 |
| f. Planned In Next Four Program Years: | 5,000 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 245,073 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 130-835 | RENOVATE SECURITY POLICE OPERATIONS | 77,200 SF | 6,000 | NOV 92 | DEC 93 |
| 141-911 | REMOTE MISSILE CREW FACILITIES | 40,000 SF | 3,800 | NOV 92 | JUL 93 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS PHASE I | 34 EA | 2,200 | OCT 92 | MAR 93 |
| 851-147 | WEAPONS STORAGE AREA SECURITY | LS | 640 | SEP 92 | MAY 93 |
| | | TOTAL: | 12,640 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 411-000 | UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES | 39 EA | 1,700 |
| | | TOTAL: | 1,700 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 610-000 | UPGRADE 5 HISTORIC FACILITIES | 42,321 SF | 2,500 |
| 610-112 | LAW CENTER | 11,500 SF | 1,000 |
| 871-183 | STORM DRAINAGE FACILITIES | LS | 1,500 |

10. Mission or Major Functions: A missile wing consisting of one Peacekeeper and three Minuteman intercontinental ballistic missile squadrons which maintain a continuous alert posture, and a combat air rescue detachment with UH-1 helicopters.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 7,780 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | RENOVATE SECURITY POLICE OPERATIONS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 130-835 | GHLN941016 | 6,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RENOVATE SECURITY POLICE OPERATIONS | SF | 77,000 | 57 | 4,389 |
| SUPPORTING FACILITIES | | | | 750 |
| UTILITIES | LS | | | ( 95) |
| PAVEMENTS | LS | | | ( 60) |
| SITE IMPROVEMENTS | LS | | | ( 95) |
| DEMOLITION AND ASBESTOS REMOVAL | SF | 50,000 | 10 | ( 500) |
| SUBTOTAL | | | | 5,139 |
| CONTINGENCY (10%) | | | | 514 |
| TOTAL CONTRACT COST | | | | 5,653 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 339 |
| TOTAL REQUEST | | | | 5,992 |
| TOTAL REQUEST (ROUNDED) | | | | 6,000 |

10. Description of Proposed Construction: All structural, mechanical, electrical, and architectural work for renovation of Security Police Operations located in an historic building. Includes interior/exterior finishes, communications prewiring, prewired workstations, asbestos removal, site improvements, landscaping, utility service upgrades, and parking lot improvements.
Air Conditioning: 300 Tons.

11. REQUIREMENT: 77,200 SF ADEQUATE: 0 SUBSTANDARD: 77,200 SF
PROJECT: Renovate security police operations. (Current Mission)
REQUIREMENT: Adequate facilities are required to provide space for the Security Police Group and four Security Police Squadrons responsible for security of missile fields located in four states, and strategic weapons storage and maintenance. Facilities must provide adequate space for all security police functions, including law enforcement, resource and personnel protection, and base information security functions plus detention, training, and customer service functions such as "Pass and Identification." A consolidated facility is necessary to optimize command and control, and the location of the existing facility provides for short response times to emergencies.
CURRENT SITUATION: This building was constructed in 1909 as a post hospital. It is on the National Register of Historic Places and is included in the Historic Landmark District. The facility must be retained and preserved as long as it is so designated. The type of renovation is restricted by this historic designation; however, these restrictions would not prevent efficient use of the facility by the Security Police Group. While the building's interior layout may have been appropriate for a 1909 hospital, it is haphazard and inefficient for Security Police functions.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| F E WARREN AIR FORCE BASE, WYOMING | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| RENOVATE SECURITY POLICE OPERATIONS | | GHLN941016 |

There is no separation of customer service areas from law enforcement and security operations. For example, "Pass and Identification", which everyone assigned to the base must visit, is located in the center of the building, and customers must wait in a hallway used by armed Security Police. The entire facility is dilapidated. Some structural repairs are required to prevent further deterioration; floors are uneven due to structural members having shifted over the years. All windows and doors need replacing because of their age, as do some of the stone window sills and much of the exterior woodwork. The mechanical and electrical systems are outdated and undersized. Access to some of the key elements of these systems is restricted because the entire basement has been sealed off due to asbestos hazards. The building has the potential for many years of continued use if interior renovation is accomplished and repairs are made to the exterior to preserve the building.

IMPACT IF NOT PROVIDED: Adequate facilities to house the Security Police will not be available. This historical building will become so deteriorated that it cannot be used for base functions and, new construction will be required to provide useable facilities. Due to the age and condition of this building, maintenance and repair costs are excessive, and with limited funding the building, will deteriorate from lack of maintenance unless a major renovation project is accomplished.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, renovation, and status quo operations. Based upon the net present values and benefits of the respective alternatives, renovation was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| RENOVATE SECURITY POLICE OPERATIONS | GHLN941016 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 02 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 04 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 150 |
| (b) All Other Design Costs | 210 |
| (c) Total | 360 |
| (d) Contract | 300 |
| (e) In-house | 60 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | REMOTE MISSILE CREW FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96C | 141-911 | GHLN941017 | 3,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REMOTE MISSILE CREW FACILITIES | EA | 4 | | 2,960 |
| MISSILE CREW FACILITY (10000 SF EACH) | SF | 40,000 | 74 | (2,960) |
| SUPPORTING FACILITIES | | 1 | | 470 |
| UTILITIES | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 30) |
| DEMOLITION | SF | 28,400 | 13 | ( 370) |
| PAVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 3,430 |
| CONTINGENCY (5%) | | | | 172 |
| TOTAL CONTRACT COST | | | | 3,602 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 216 |
| TOTAL REQUEST | | | | 3,818 |
| TOTAL REQUEST (ROUNDED) | | | | 3,800 |

10. Description of Proposed Construction: Two-story structure with concrete footings and foundation (use existing foundation if possible), masonry exterior walls, and a sloped metal roof. Includes demolition, site work, heated vehicle parking, fire protection, sleeping quarters, kitchen dining area, management offices, recreation rooms, hardened security observation room, mechanical rooms and all necessary support. Air Condit.oning: 14 Tons.

11. REQUIREMENT: 40,000 SF ADEQUATE: 0 SUBSTANDARD: 28,400 SF
PROJECT: Construct missile crew facilities (MCFs). (Current Mission)
REQUIREMENT: Provide operational facilities for missile launch crews, flight security crews, maintenance crews, and supporting ground crews at four Minuteman/Peacekeeper launch control centers to keep our ICBM force viable into the 21st century. These buildings provide sleeping quarters, recreational rooms, kitchen and dining facilities, study rooms, flight security control rooms, facility manager's rooms, mechanical and water treatment rooms, electric generator and equipment rooms, latrines and attached garages for snow removal, security and launch crew vehicles. Exterior requirements include utility upgrades and adequate paved parking.
CURRENT SITUATION: The existing MCFs are over 28 years old and require constant repair. The buildings are in violation of fire codes. They are made of combustible materials such as light wood-frame construction and tar-based shingled roofs. The wiring is old and brittle and will not handle the increased amperage of modern day appliances and electronic equipment. From a recent survey, these facilities were also found to have significant structural/plumbing problems, contain asbestos, have inefficient and ineffective mechanical systems, and in general have out lived their economic life. From an operations standpoint, these

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REMOTE MISSILE CREW FACILITIES | GHLN941017 |

facilities adversly impact mission effectiveness by constantly requiring maintenance. For example, replacement parts for the elevators are no longer manufactured, and only through the ingenuity of maintenance personnel do they operate at all.

IMPACT IF NOT PROVIDED: Guided missile launch crews and primary support personnel will be forced to stay in substandard, aging and deteriorated facilities and will not be able to perform at peak efficiency. The MCFs are critical to launch capability and their importance can't be overlooked in the context of maintaining a modern, capable and secure ICBM force.

ADDITIONAL: There is no scope/criteria for this project in Military Handbook 1190, "Facility Planning and Design Guide." All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REMOTE MISSILE CREW FACILITIES | GHLN941017 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 JUL 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 200 |
| (b) All Other Design Costs | 220 |
| (c) Total | 420 |
| (d) Contract | 360 |
| (e) In-house | 60 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | UNDERGROUND FUEL STORAGE TANKS PHASE I |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.56C | 411-135 | GHLN952500 | 2,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE I | EA | 39 | | 1,884 |
| REPLACE UNDERGROUND STORAGE TANKS | EA | 27 | 48,890 | (1,320) |
| UPGRADE UNDERGROUND STORAGE TANKS | EA | 12 | 47,000 | ( 564) |
| SUBTOTAL | | | | 1,884 |
| CONTINGENCY (10%) | | | | 188 |
| TOTAL CONTRACT COST | | | | 2,072 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 124 |
| TOTAL REQUEST | | | | 2,196 |
| TOTAL REQUEST (ROUNDED) | | | | 2,200 |

10. Description of Proposed Construction: Excavate/remove 27 underground storage tanks. Dispose of tank residue and test soil at each site. Remove/dispose of contaminated soil. Replace tanks with new double-walled tanks, interstitial leak detectors, double-wall piping and spill/overfill protectors. Upgrade 12 tanks with leak detectors, double-wall piping, corrosion, spill, overflow protection, and epoxy lining.

11. REQUIREMENT: As required.

PROJECT: Replace/upgrade underground storage tanks (USTs) at missile launch and launch control facilities. Phase 1 of 4. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. All regulated USTs must be upgraded in accordance with Federal Law (40 CFR 280.21) by December 1998. The Law also requires underground tanks have leak detection, corrosion protection and spill/overflow prevention systems to protect human health and the environment.

CURRENT SITUATION: Underground storage tanks at F E Warren AFB do not meet Federal regulatory requirements for corrosion protection, leak detection monitoring and overfill/spill protection. These deficiencies must be corrected to prevent violation of Federal UST regulations. Currently, 134 shallow buried USTs at missile launch and launch control facilities require upgrade or replacement to meet the 1998 Federal deadline. This project is the first of four phases, and will replace/upgrade 39 USTs.

IMPACT IF NOT PROVIDED: These improvements to USTs are required by Federal Law. If they are not accomplished by the established deadline, the base will be in violation of the law and may begin receiving Notices of Violation, fines, and significant adverse publicity. Undetected tank failures may result in contamination of soil and potable water supplies,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE I | GHLN952500 |

resulting in a threat to human health as well as extremely costly cleanup measures.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS PHASE I | GHLN952500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 OCT 01 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 MAR 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 78 |
| (b) | All Other Design Costs | 10 |
| (c) | Total | 88 |
| (d) | Contract | 78 |
| (e) | In-house | 10 |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ANTIGUA AIR STATION, ANTIGUA ISLAND, WEST INDIES | AIR FORCE SPACE COMMAND | 1.73 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1 | 1 | | | | | | | | 2 |
| b. End FY 1998 | 1 | 1 | | | | | | | | 2 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 274) | |
| b. Inventory Total As Of: (30 SEP 92) | 9,424 |
| c. Authorization Not Yet In Inventory: | 8,200 |
| d. Authorization Requested In This Program: | 1,000 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 18,624 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 811-145 | SLFI-UPGRADE BACKUP GENERATOR | 1,000 KW | 1,000 | DEC 92 | JUL 93 |
| | | TOTAL: | 1,000 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A missile and satellite tracking station.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 1,500 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ASCENSION ISLAND AUXILIARY AIRFIELD, SOUTH ATLANTIC OCEAN | AIR FORCE SPACE COMMAND | 2.50 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1 | 1 | | | | | | | | 2 |
| b. End FY 1998 | 2 | 2 | | | | | | | | 4 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,857) | |
| b. Inventory Total As Of: (30 SEP 92) | 31,166 |
| c. Authorization Not Yet In Inventory: | 22,000 |
| d. Authorization Requested In This Program: | 3,400 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 7,100 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 63,666 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 831-165 | WASTEWATER TREATMENT PLANT | | LS | 3,400 | NOV 92 | SEP 93 |
| | | | TOTAL: | 3,400 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 214-425 | VEHICLE AND HEAVY EQUIPMENT MAINTENANCE FACILITY | 20,000 | SF | 3,500 |
| 219-944 | FACILITY MAINTENANCE BUILDING | 15,000 | SF | 2,500 |
| 371-475 | GPS INSTRUMENTATION FACILITY | 5,000 | SF | 1,100 |

10. Mission or Major Functions: An Air Force Space Command down range missile and satellite tracking station supporting the Eastern Space and Missile Center.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ASCENSION AUXILIARY AIRFIELD, ASCENSION ISLAND, SOUTH ATLANTIC OCEAN | WASTEWATER TREATMENT PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.58.56 | 831-165 | YXTK963101 | 3,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WASTEWATER TREATMENT PLANT | KG | 80 | 8,700 | 696 |
| SUPPORTING FACILITIES | | | | 2,205 |
| SANITARY SEWER MAINS | LF | 12,000 | 160 | (1,920) |
| SITE IMPROVEMENTS | LS | | | ( 190) |
| START-UP TRAINING AND O&M TRAINING | LS | | | ( 95) |
| SUBTOTAL | | | | 2,901 |
| CONTINGENCY (10%) | | | | 290 |
| TOTAL CONTRACT COST | | | | 3,191 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 207 |
| TOTAL REQUEST | | | | 3,398 |
| TOTAL REQUEST (ROUNDED) | | | | 3,400 |

10. Description of Proposed Construction: Provide and install an 80,000 gallon per day (GPD) corrosion resistant sewage treatment plant to treat saline effluent. Provide up to 180 days of operations and training. Includes all necessary foundation work, and all electrical and piping connections. Replace all 6" and 8" sewer mains.

11. REQUIREMENT: 80 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a package sewage treatment plant and replace sewer mains. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. DOD Directive 6050.16 requires that overseas installations comply with US EPA standards. An 80,000 gallon per day sewage treatment facility is required to properly treat and dispose of domestic and industrial wastewater. A distribution system of sewer laterals and mains is required to insure compliance and to safeguard personnel from potential health hazards resulting from leaks.

CURRENT SITUATION: This base has no treatment system to handle the domestic and industrial sewage. The base uses a series of septic tanks located throughout the main base area to collect the sewage and discharge it by free-flow outfall directly into the ocean. Raw discharge of this nature is unacceptable and will continue to pollute the surrounding environment. The existing cast iron and vitrified clay pipe sewer mains were installed over 30 years ago and have deteriorated to the point of failure, resulting in health hazards to personnel who live and work on Ascension.

IMPACT IF NOT PROVIDED: Septic tank effluents will continue to be discharged directly into the ocean, in violation of DOD policy. Continued deterioration of sewer mains will eventually lead to numerous failures.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ASCENSION AUXILIARY AIRFIELD, ASCENSION ISLAND, SOUTH ATLANTIC OCEAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WASTEWATER TREATMENT PLANT | YXTK963101 |

Improper handling of sewage is unsanitary and unhealthy for people stationed at this remote location.
ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ASCENSION AUXILIARY AIRFIELD, ASCENSION ISLAND, SOUTH ATLANTIC OCEAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WASTEWATER TREATMENT PLANT | YXTK963101 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 06 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 29 |
| (d) Date Design Complete | 93 SEP 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 145 |
| (b) All Other Design Costs | 60 |
| (c) Total | 205 |
| (d) Contract | 175 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| CLASSIFIED LOCATIONS (INSIDE AND OUTSIDE THE UNITED STATES) | | 0.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 13,640 |
| e. Authorization Included In Following Program: (FY 1995) | 44,200 |
| f. Planned In Next Four Program Years: | 119,800 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 177,640 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|---|
| 100-000 | SPECIAL TACTICAL UNIT DETACHMENT FACILITY | | LS | 5,540 | | |
| 100-000 | OMEGA FACILITIES | | LS | 2,600 | | |
| 442-758 | WAR READINESS MATERIEL WAREHOUSE | 120,000 | SF | 5,500 | MAY 92 | SEP 93 |
| | | TOTAL: | | 13,640 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 100-000 | SPECIAL TACTICAL UNIT DETACHMENT FACILTIY | | LS | 2,140 |
| 100-000 | EUROPEAN GROUND STATION | | LS | 16,800 |
| 100-000 | VARIOUS FACILITIES | | LS | 2,060 |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 2,000 |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 5,200 |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 2,100 |
| 170-000 | AIRCRAFT TRAINING FACILITIES | | LS | 9,600 |
| 217-742 | WAR READINESS MATERIEL MAINTENANCE/MANAGEMENT FAC | 10,000 | SF | 1,300 |
| 442-515 | WAR READINESS MATERIEL MEDICAL STORAGE FACILITY | 18,000 | SF | 1,800 |
| 452-252 | WAR READINESS MATERIEL OPEN STORAGE FACILITY | 62,000 | SF | 1,200 |
| | | TOTAL: | | 44,200 |

9b. Future Projects: Typical Planned Next Four Years:

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CLASSIFIED LOCATION | WAR READINESS MATERIEL WAREHOUSE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.31 | 442-758 | HTAC943047 | 5,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WAR READINESS MATERIEL WAREHOUSE | SF | 120,000 | 39 | 4,680 |
| SUPPORTING FACILITIES | | | | 270 |
| UTILITIES | LS | | | ( 180) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 4,950 |
| CONTINGENCY (5%) | | | | 248 |
| TOTAL CONTRACT COST | | | | 5,198 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 338 |
| TOTAL REQUEST | | | | 5,536 |
| TOTAL REQUEST (ROUNDED) | | | | 5,500 |

10. Description of Proposed Construction: Construct pre-engineered metal and masonry buildings with lighting, ventilation, other utility systems, and supporting facilities, including pavements and site improvements.

11. REQUIREMENT: 120,000 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a complex of war readiness materiel (WRM) storage warehouses. (New Mission)
REQUIREMENT: Storage facilities are required for prepositioning and long-term storage of high-value WRM assets. These assets must be ready for use by US Central Command forces.
CURRENT SITUATION: Other facilities in host country are unavailable for WRM storage requirements. WRM assets moved into the region during Operation DESERT SHIELD/DESERT STORM must either be stored in country or returned to the CONUS. CONUS storage and roundtrip transportation will exceed storage cost in host country.
IMPACT IF NOT PROVIDED: Adequate facilities will not be available for storage of assets required to support US Central Command contingency planning in the Persian Gulf area. Without adequate storage facilities, increased transportation demands will greatly impede US capability to successfully execute contingency plans and protect national interests.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WAR READINESS MATERIEL WAREHOUSE | HTAC943047 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 18 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 01 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 212 |
| (b) All Other Design Costs | 70 |
| (c) Total | 282 |
| (d) Contract | |
| (e) In-house | 282 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| RAMSTEIN AIR BASE, GERMANY | UNITED STATES AIR FORCES IN EUROPE | 1.40 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 1256 | 6004 | 826 | | | | | | | 8,086 |
| b. End FY 1998 | 1158 | 5591 | 785 | | | | | | | 7,534 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 677) | |
| b. Inventory Total As Of: (30 SEP 92) | 32,164 |
| c. Authorization Not Yet In Inventory: | 5,260 |
| d. Authorization Requested In This Program: | 3,100 |
| e. Authorization Included In Following Program: (FY 1995) | 11,600 |
| f. Planned In Next Four Program Years: | 2,900 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 55,024 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 740-884 | CHILD DEVELOPMENT CENTER | 11,900 SF | 3,100 | JUN 92 | MAY 93 |
| | | TOTAL: | 3,100 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 831-165 | UPGRADE SEWAGE COLLECTION SYSTEM | LS | 11,600 |
| | | TOTAL: | 11,600 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 124-134 | UNDERGROUND FUEL STORAGE TANKS | LS | 2,900 |

10. Mission or Major Functions: Headquarters United States Air Forces in Europe; a flying wing with two fighters squadrons (F-16 aircraft) and an airlift squadron (C-12, C-20, C-21, and T-43 aircraft, and UH-1 helicopters); a tactical intelligence wing; NATO's Headquarters Allied Air Forces Central Europe; an Air Force Intelligence Command intelligence wing; and an Air Mobility Command airlift support group. Also, the future beddown location of the aeromedical airlift mission (C-9 aircraft) from Rhein-Main AB, GE.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 2,900 |
| c. Occupational safety and health: | 1,000 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RAMSTEIN AIR BASE, GERMANY | CHILD DEVELOPMENT CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96U | 740-884 | TYFR923006 | 3,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER | SF | 11,900 | 190 | 2,261 |
| SUPPORTING FACILITIES | | | | 510 |
| UTILITIES | LS | | | ( 65) |
| PAVEMENTS | LS | | | ( 270) |
| SITE IMPROVEMENTS | LS | | | ( 155) |
| COMMUNICATIONS SUPPORT | LS | | | ( 20) |
| SUBTOTAL | | | | 2,771 |
| CONTINGENCY (5%) | | | | 139 |
| TOTAL CONTRACT COST | | | | 2,910 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 189 |
| TOTAL REQUEST | | | | 3,099 |
| TOTAL REQUEST (ROUNDED) | | | | 3,100 |

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab and frame, masonry walls and structural roofing system. Functional areas include reception, multi-purpose room, restroom, storage, isolation room, offices, laundry, kitchen, mechanical room and playground. Includes fire protection, all utilities and necessary support, and demolition of interim facilities.

11. REQUIREMENT: 73,465 SF ADEQUATE: 13,455 SF SUBSTANDARD: 39,005 SF
PROJECT: Construct a child development center. (Current Mission)
REQUIREMENT: Adequate facilities are required to support supervised care and developmental experience for dependent children aged six weeks to five years. The child development center must provide a comfortable, clean and educational environment for the dependent children of active duty military and DoD civilians stationed at this overseas location.
CURRENT SITUATION: The Kaiserlautern Military Community (KMC) which includes Ramstein Air Base and the Vogelweh Annex receives child development services at both locations. The total requirement is based on the needs of the entire KMC. Since both areas are separated geographically and have respective housing areas, the services are provided at both locations. Deficiencies are being corrected by this project and a companion project at Vogelweh Annex. Currently, there is only one facility for child care at Ramstein Air Base. A second facility that had been used for child care was condemned by the Director of Air Force Child Development Youth Activities during a visit in July 1990 and was subsequently closed. Since this facility closed the waiting list for child care has grown to over 330 children. Of these, about 112 are going to licensed family day caregivers throughout the community. The rest are either going to unlicensed care providers or simply doing without. Two

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

RAMSTEIN AIR BASE, GERMANY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | TYFR923006 |

relocatable buildings will be moved from Zweibrucken Air Base to provide an interim solution to the shortfall of space, but a permanent solution is desperately needed. Adequate child care is much more difficult to obtain in Europe than in the States since there are no franchised child care centers on the economy. The problem gets even worse during exercises and emergencies when short notice, 24-hour care is required by many of our personnel.

IMPACT IF NOT PROVIDED: Without adequate child care for the dependents of active duty military and DoD civilians at Ramstein morale and readiness will decline. Airmen who have the extra burden of worrying about the care of their children simply will not operate as effectively as those who know their families are being provided for.

ADDITIONAL: This project is not eligible for NATO funding. The NATO infrastructure program does not support child care facilities; however, a precautionary prefinance statement will be submitted in the event the project becomes eligible in the future. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

RAMSTEIN AIR BASE, GERMANY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER | TYFR923006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 01 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 MAY 31 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 129 |
| (b) All Other Design Costs | |
| (c) Total | 129 |
| (d) Contract | 79 |
| (e) In-house | 50 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| THULE AIR BASE, GREENLAND | AIR FORCE SPACE COMMAND | 2.48 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 24 | 108 | 3 | | | | | | | 135 |
| b. End FY 1998 | 22 | 1009 | 3 | | | | | | | 1,034 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 234,022) | |
| b. Inventory Total As Of: (30 SEP 92) | 399,020 |
| c. Authorization Not Yet In Inventory: | 12,700 |
| d. Authorization Requested In This Program: | 5,492 |
| e. Authorization Included In Following Program: (FY 1995) | 2,150 |
| f. Planned In Next Four Program Years: | 51,200 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 470,562 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 831-165 | WASTEWATER TREATMENT PLANT | | LS | 5,492 | AUG 92 | SEP 93 |
| | | | TOTAL: | 5,492 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 179-511 | FIRE TRAINING FACILITY | LS | 2,150 | |
| | TOTAL: | | 2,150 | |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 112-211 | UPGRADE AIRFIELD PAVEMENTS, PHASE III | 222,000 | SY | 8,900 |
| 219-944 | CONSOLIDATED CIVIL ENGINEERING SHOPS | 36,100 | SF | 5,200 |
| 721-312 | RENOVATE UNACCOMPANIED ENLISTED HSG | 58 | PN | 4,700 |
| 721-315 | ALTER DORMITORY | 27,120 | SF | 5,800 |
| 721-315 | DORMITORY | 150 | PN | 11,000 |

10. Mission or Major Functions: A space warning group; a satellite tracking group; and a communications squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 2,150 |
| b. Water pollution: | 1,200 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| THULE AIR BASE, GREENLAND | WASTEWATER TREATMENT PLANT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.58.56 | 831-165 | WWCX953004 | 5,492 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WASTEWATER TREATMENT PLANT | SF | 14,400 | 330 | 4,752 |
| SUPPORTING FACILITIES | | | | 130 |
| UTILITIES | LS | | | ( 25) |
| COMMUNICATIONS SUPPORT | LS | | | ( 15) |
| OTHER SUPPORTING FACILITIES | LS | | | ( 40) |
| START-UP TRAINING AND O&M TRAINING | LS | | | ( 50) |
| SUBTOTAL | | | | 4,882 |
| CONTINGENCY (5%) | | | | 244 |
| TOTAL CONTRACT COST | | | | 5,126 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 333 |
| TOTAL REQUEST | | | | 5,459 |
| TOTAL REQUEST (ROUNDED) | | | | 5,492 |

10. Description of Proposed Construction: Construct a 14,400 SF pre-engineered steel building. Provide and install wastewater treatment equipment. Provide up to 180 days of operations and training.

11. REQUIREMENT: 14,400 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a wastewater treatment plant. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. DoD Directive 6050.16 requires overseas installations to comply with US EPA standards. A 100,000 gallon/day treatment facility is required to treat domestic and industrial wastewater for the main base area of Thule AB, Greenland.

CURRENT SITUATION: Raw sewage from the main base area enters a network of aboveground sanitary lines. The untreated sewage then discharges into North Star Bay. The two satellite sites to the main base (Det 3 and BMEWS) discharge to the ground and will be addressed under separate O&M contracts.

IMPACT IF NOT PROVIDED: Raw sewage will continue to discharge directly into North Star Bay, violating DoD directives.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

THULE AIR BASE, GREENLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WASTEWATER TREATMENT PLANT | WWCX953004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 10 |
| (d) Date Design Complete | 93 SEP 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 336 |
| (b) All Other Design Costs | 224 |
| (c) Total | 560 |
| (d) Contract | 448 |
| (e) In-house | 112 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ANDERSEN AIR FORCE BASE, GUAM | PACIFIC AIR FORCES | 2.24 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 206 | 2271 | 561 | | | | 21 | 25 | | 3,084 |
| b. End FY 1998 | 203 | 2167 | 588 | | | | 21 | 25 | | 3,004 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 15,971) | |
| b. Inventory Total As Of: (30 SEP 92) | 268,861 |
| c. Authorization Not Yet In Inventory: | 15,690 |
| d. Authorization Requested In This Program: | 4,100 |
| e. Authorization Included In Following Program: (FY 1995) | 23,696 |
| f. Planned In Next Four Program Years: | 78,450 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 390,797 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 411-137 | UNDERGROUND FUEL STORAGE TANKS | | LS | 4,100 | SEP 92 | AUG 93 |
| | | | TOTAL: | 4,100 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 121-111 | ADD TO AND ALTER PETROLEUM OPERATIONS FACILITY | 4,150 | SF | 1,700 |
| 130-835 | ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY | 18,430 | SF | 3,650 |
| 216-642 | RENOVATE MUNITIONS MAINTENANCE FACILITIES | | LS | 4,296 |
| 219-944 | ENTOMOLOGY SHOP | 2,500 | SF | 1,100 |
| 411-135 | UNDERGROUND FUEL STORAGE TANKS | | LS | 4,150 |
| 724-417 | UPGRADE TRANSIENT DORMITORIES | 108 | PN | 8,800 |
| | | TOTAL: | | 23,696 |

9b. Future Projects: Typical Planned Next Four Years:

| | | | | |
|---|---|---|---|---|
| 219-944 | CIVIL ENGINEERING COMPLEX | | LS | 9,000 |
| 411-135 | JET FUEL STORAGE | | LS | 4,150 |
| 610-243 | MISSION SUPPORT FACILITY | | LS | 5,000 |
| 800-000 | ECIP | | LS | 2,500 |
| 841-165 | INDUSTRIAL WASTE WATER TREATMENT FACILITY | 200 | KG | 1,500 |

10. Mission or Major Functions: Headquarters Thirteenth Air Force; an airlift support squadron which provides enroute and staging support to transient and deploying US aircraft; and a combat communications group.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 3,850 |
| b. Water pollution: | 15,800 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No 559

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDERSEN AIR FORCE BASE, GUAM | UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.74.56 | 411-137 | AJJY933105 | 4,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS | LS | | | 2,825 |
| SUPPORTING FACILITIES | | | | 830 |
| CONTAINMENT DIKES | LS | | | ( 60) |
| CATHODIC PROTECTION/DETECTION DEVICES | LS | | | ( 200) |
| EXCAVATION/BACKFILL | LS | | | ( 450) |
| SOIL TESTING/DISPOSAL | LS | | | ( 120) |
| SUBTOTAL | | | | 3,655 |
| CONTINGENCY (5%) | | | | 183 |
| TOTAL CONTRACT COST | | | | 3,838 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 249 |
| TOTAL REQUEST | | | | 4,087 |
| TOTAL REQUEST (ROUNDED) | | | | 4,100 |

10. Description of Proposed Construction: Replaces and upgrades six (6) Underground Storage Tanks (UST). Includes old tank removal, installation of new tanks with release detection, encasement, spill and overfill prevention devices, cathodic protection, soil testing/disposal, site work, utilities and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Replaces and upgrades six (6) underground fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Upgrade of all USTs regulated by 40 CFR 280 and Guam Code 10 GCA 88 to new construction standards is required. The Federal and Guam Environmental Protection Agencies (EPA & GEPA) have set standards that require all regulated USTs to have leak detection, corrosion protection, and spill/overflow prevention systems by December 1998. If USTs are to be replaced, Air Force Policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible. However, existing underground petroleum product storage tanks which are in good condition may be upgraded in place to bring them into compliance with applicable UST standards.

CURRENT SITUATION: Andersen AFB has 38 USTs requiring replacement and upgrade. The tanks are made of steel, unlined and do not have cathodic protection. Eleven of these tanks will be removed or replaced by 1994. This project replaces the largest and oldest six (6) of the 27 tanks left. A FY95 MILCON project will address the remaining 21 tanks. The tanks in this project are 25-36 years old and do not have leak detection or prevention devices. The EPA's cause-of-release study found that unprotected steel tanks over 15 years of age represent the highest

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDERSEN AIR FORCE BASE, GUAM

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | AJJY933105 |

potential leakage threat. Andersen AFB recently identified underground fuel tanks of the same construction and age which were leaking and had to be closed. This experience makes it probable that all tanks have been affected by the corrosive soil and lack of protection, and are liable to leak at any time. Guam EPA has recently adopted stringent regulations which require all tanks be replaced or upgraded because of the porous coral-based soil and the location of Andersen AFB over the island's main water aquifer.

IMPACT IF NOT PROVIDED: Failure to take corrective action will result in underground storage tanks which do not meet regulatory requirements. After 22 December 1998, the US Air Force would be open to GEPA Notice of Violations and monetary penalties with possible litigation forcing compliance and remediation. The potential for soil/groundwater contamination would remain and is highly likely based on previous experience at Andersen AFB with tanks of this age.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, repair and replacement construction) was done. It indicates there is only one option that satisfies statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exclusion has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDERSEN AIR FORCE BASE, GUAM

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | AJJY933105 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 25 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 08 |
| (d) | Date Design Complete | 93 AUG 16 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 247 |
| (b) | All Other Design Costs | 156 |
| (c) | Total | 403 |
| (d) | Contract | 346 |
| (e) | In-house | 57 |
| (4) | Construction Start | 93 NOV |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| DIEGO GARCIA AIR BASE, INDIAN OCEAN | PACIFIC AIR FORCES | 3.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 4 | 19 | | | | | | | | 23 |
| b. End FY 1998 | 4 | 50 | | | | | | | | 54 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 2,260 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 2,260 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 131-132 | GPS INSTRUMENTATION FACILITY | 3,100 SF | 1,700 | NOV 92 | SEP 93 |
| 219-946 | SATELLITE TRACKING STORAGE FACILITY | 1,000 SF | 560 | NOV 92 | SEP 93 |
| | | TOTAL: | 2,260 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A logistics group detachment; Air Force Space Command satellite tracking and space surveillance detachments; and an Air Mobility Command airlift support detachment.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DIEGO GARCIA AIR BASE, INDIAN OCEAN | GPS INSTRUMENTATION FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 3.59.96 | 131-132 | FGDA943001 | 1,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| GPS INSTRUMENTATION FACILITY | SF | 3,700 | 300 | 1,110 |
| SUPPORTING FACILITIES | | | | 430 |
| UTILITIES | LS | | | ( 80) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| UPGRADE EMERGENCY GENERATOR | LS | | | ( 140) |
| DEMOLITION | LS | | | ( 25) |
| SECURITY PROVISIONS | LS | | | ( 150) |
| SUBTOTAL | | | | 1,540 |
| CONTINGENCY (5%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 1,617 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 105 |
| TOTAL REQUEST | | | | 1,722 |
| TOTAL REQUEST (ROUNDED) | | | | 1,700 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (500) |

10. Description of Proposed Construction: Permanent concrete masonry unit (CMU) structure with structural steel/built-up roof, slab-on-grade foundation, gypsum wall board and suspended ceiling, raised computer flooring, temperature and humidity controlled environment (heating not required) and emergency generator.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 3,720 SF ADEQUATE: 0 SUBSTANDARD: 1,408 SF
PROJECT: Construct Global Positioning System (GPS) Instrumentation Facility. (Current Mission)
REQUIREMENT: Provide an environmentally controlled facility to house secure electronic equipment (worth over $2.0M) necessary to provide telemetry, tracking, and command (TT&C) data for satellites in the Global Positioning System (GPS) constellation. The GPS requires three strategically located ground stations for worldwide coverage of its 21 satellite constellation which provides DOD, other government agencies and commercial users with state-of-the-art navigation data. The ground stations are located on Ascension Island, Diego Garcia, and Kwajalein Atoll. Each site provides required coverage for a portion of GPS satellite orbits above its sector of the earth. Hence, each ground station must be fully operational 24 hours per day to provide telemetry, tracking, and control (TT&C) support to each satellite.
CURRENT SITUATION: The GPS ground station at Diego Garcia is comprised of secure communications equipment located within a congested Navy Communications Station, and non-secure transmission equipment located in a small metal trailer adjacent to the ground antenna. The secure equipment facility has inadequate operations and storage space and limited access due to Navy communications security requirements. The facility is located

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DIEGO GARCIA AIR BASE, INDIAN OCEAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| GPS INSTRUMENTATION FACILITY | FGDA943001 |

approximately one mile from the main operations area. Technicians must travel between these two locations when troubleshooting or initializing equipment. The non-secure equipment trailer is severely deteriorated due to the extremely corrosive marine environment and now leaks when it rains. There is inadequate space to conduct routine maintenance on equipment (technicians must open the main door and stand outside the trailer to access some racks). The only latrine facility on site is a chemical toilet and the technicians use a shipping container for office space. Storage space is so limited that many of the technical supplies are housed in the ground antenna radome.

IMPACT IF NOT PROVIDED: Valuable electronic equipment used to control GPS vehicles and transmit mission data will continue to be housed in inadequate facilities which hamper the ability to perform the mission. Depending on the timing of the failure and the health status of satellites operated by the particular site, this could result in the loss of crucial TT&C/navigation data, or the possibility of a multi-million dollar satellite receiving inadequate instructions. Improper management of satellites can result in errors in the data received by users on the ground worldwide.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DIEGO GARCIA AIR BASE, INDIAN OCEAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| GPS INSTRUMENTATION FACILITY | PGDA943001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 09 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 100 |
| (b) All Other Design Costs | 50 |
| (c) Total | 150 |
| (d) Contract | 125 |
| (e) In-house | 25 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| UPS | 3080 | 1994 | 500 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
| THUMRAIT AIR BASE, OMAN | AIR COMBAT COMMAND | 1.58 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | | | | | | | | | | |
| b. End FY 1998 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 0) | |
| b. Inventory Total As Of: (30 SEP 92) | 0 |
| c. Authorization Not Yet In Inventory: | 25,800 |
| d. Authorization Requested In This Program: | 1,800 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 27,600 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 442-628 | WAR READINESS MATERIEL COVERED STORAGE FACILITY | 60,000 SF | 1,800 | MAY 92 | JUL 93 |
| | | TOTAL: | 1,800 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A contingency operating location with pre-positioned wartime assets.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| THUMRAIT AIR BASE, OMAN | WAR READINESS MATERIEL COVERED STORAGE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.80.31 | 442-628 | HTAC943044 | 1,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WAR READINESS MATERIEL COVERED STORAGE FACILITY | SF | 60,000 | 20 | 1,200 |
| SUPPORTING FACILITIES | | | | 410 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | LS | | | ( 250) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 1,610 |
| CONTINGENCY (5%) | | | | 81 |
| TOTAL CONTRACT COST | | | | 1,691 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 110 |
| TOTAL REQUEST | | | | 1,801 |
| TOTAL REQUEST (ROUNDED) | | | | 1,800 |

10. Description of Proposed Construction: Construct pre-engineered metal storage sheds with required supporting facilities, including asphalt and concrete pavements, fencing, and utility systems.

11. REQUIREMENT: 60,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a war readiness materiel (WRM) covered storage shed and enclosure. (New Mission)

REQUIREMENT: US Central Command requires prepositioning of WRM assets in the command's area of responsibility. Covered storage shed facilities are required for prepositioning and long-term storage of material and equipment which will deteriorate under continued direct exposure to sun and rain. These assets must be ready for use by US Central Command forces.

CURRENT SITUATION: Other facilities in host country are unavailable for WRM storage requirements. Assets moved into the region during Operation DESERT SHIELD/DESERT STORM must either be stored in country or returned to the CONUS. CONUS storage costs and roundtrip transportation will exceed storage costs in host country.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available for storage of assets required to support US Central Command contingency planning in the Persian Gulf area. Without adequate storage facilities, increased transportation demands will greatly impede US capability to successfully execute contingency plans and protect national interests.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

THUMRAIT AIR BASE, OMAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WAR READINESS MATERIEL COVERED STORAGE FACILITY | HTAC943044 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 MAY 18 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 AUG 03 |
| (d) | Date Design Complete | 93 JUL 21 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 84 |
| (b) | All Other Design Costs | 27 |
| (c) | Total | 111 |
| (d) | Contract | |
| (e) | In-house | 111 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| INCIRLIK AIR BASE, TURKEY | UNITED STATES AIR FORCES IN EUROPE | 0.95 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 95 | 1891 | 124 | 107 | 494 | | 3 | 30 | 4 | 2,748 |
| b. End FY 1998 | 207 | 1983 | 130 | 107 | 494 | | 3 | 30 | 4 | 2,958 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,471) | |
| b. Inventory Total As Of: (30 SEP 92) | 204,179 |
| c. Authorization Not Yet In Inventory: | 1,100 |
| d. Authorization Requested In This Program: | 2,400 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 1,250 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 208,929 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 721-312 | ADD TO AND ALTER DORMITORIES | 280 PN | 2,400 | DEC 92 | NOV 93 |
| | | TOTAL: | 2,400 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

| | | | |
|---|---|---|---|
| 121-111 | PETROLEUM OPERATIONS COMPLEX | LS | 1,250 |

10. Mission or Major Functions: Responsible for revional logistics in Turkey; a tactical group providing command and control for deployed fighter units; and an Air Mobility Command airlift support squadron. Also, home of a composite wing (provisional) with various types of aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 1,200 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| INCIRLIK AIR BASE, TURKEY | ADD TO AND ALTER DORMITORIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96U | 721-312 | LJYC923002 | 2,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (280 PN) | SF | 56,500 | | 1,837 |
| ADDITION | SF | 6,000 | 20 | ( 120) |
| ALTERATION | SF | 50,500 | 34 | (1,717) |
| SUPPORTING FACILITIES | | | | 195 |
| UTILITIES | LS | | | ( 145) |
| PAVEMENTS | LS | | | ( 15) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| SUBTOTAL | | | | 2,032 |
| CONTINGENCY (10%) | | | | 203 |
| TOTAL CONTRACT COST | | | | 2,235 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 145 |
| TOTAL REQUEST | | | | 2,380 |
| TOTAL REQUEST (ROUNDED) | | | | 2,400 |

10. Description of Proposed Construction: Alter existing facilities to provide room-bath-room configuration and construct balconies to provide exterior entrances. Project includes insulation, sound attenuation, energy conservation features, fire protection, utilities and necessary support.
Air Conditioning: 160 Tons. Grade Mix: 280 E1-E4.

11. REQUIREMENT: 1,797 PN ADEQUATE: 1,144 PN SUBSTANDARD: 617 PN
PROJECT: Add to and alter two dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs that our enlisted people must perform.
CURRENT SITUATION: The existing facilities are 30-35 years old. They have central latrines, inadequate lighting, poor insulation and sound attenuation, and obsolete electrical and mechanical systems. Currently, these facilities are being used as transient dormitories in conjunction with Operation Provide Comfort (OPC). The high traffic caused by OPC has accelerated the wear on already worn facilities. The current average occupancy rate for dormitories is 96 percent with 206 enlisted personnel struggling to get by off base. There is no Overseas Housing Allowance (OHA) for Turkey; therefore, affordable off-base quarters for enlisted personnel do not have adequate communications and security or reliable power and water service, and usually are in undesirable locations. Permanent party personnel occupying the dormitories before project start-up will be given basic allowance for quarters (BAQ) during the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| INCIRLIK AIR BASE, TURKEY | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES | LJYC923002 |

alteration period.
IMPACT IF NOT PROVIDED: 280 enlisted troops will continue to stay in dormitories which degrade their morale, productivity, and career satisfaction.
ADDITIONAL: This project is not eligible for NATO funding. This type of facility is not within an established NATO infrastructure category for common funding and will most likely continue to be a user responsibility; however, a precautionary prefinance statement will be submitted in the event the project becomes eligible in the future. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, direct compensation, and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost-effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES | LJYC923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 DEC 15 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 93 JAN 01 |
| (d) | Date Design Complete | 93 NOV 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 228 |
| (b) | All Other Design Costs | 198 |
| (c) | Total | 426 |
| (d) | Contract | 247 |
| (e) | In-house | 179 |
| (4) | Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM | UNITED STATES AIR FORCES IN EUROPE | 1.40 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 303 | 2710 | 178 | 158 | 284 | 10 | 16 | 25 | 6 | 3,690 |
| b. End FY 1998 | 292 | 2679 | 173 | 158 | 284 | 10 | 16 | 25 | 6 | 3,643 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 1,144) | |
| b. Inventory Total As Of: (30 SEP 92) | 98,189 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 4,800 |
| e. Authorization Included In Following Program: (FY 1995) | 14,100 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 117,089 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-152 | NAVAL AIR FACILITY | 28,000 SF | 4,800 | MAR 93 | JAN 94 |
| | | TOTAL: | 4,800 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | |
|---|---|---|---|
| 141-753 | DUAL SQUADRON OPERATIONS FACILITY | 24,000 SF | 5,500 |
| 217-712 | AVIONICS MAINTENANCE SHOP | 6,000 SF | 1,100 |
| 610-142 | TRAFFIC MANAGEMENT FACILITY | 11,000 SF | 1,900 |
| 721-312 | ADD TO AND ALTER DORMITORY | 25,308 SF | 3,000 |
| 721-312 | ADD TO AND ALTER DORMITORY | 21,784 SF | 2,600 |
| | | TOTAL: | 14,100 |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Headquarters Third Air Force; an air refueling wing with one KC-135 squadron; a communications wing; and an Air Mobility Command airlift group.

11. Outstanding pollution and safety (OSH) deficiencies:

| | |
|---|---|
| a. Air pollution: | 0 |
| b. Water pollution: | 0 |
| c. Occupational safety and health: | 0 |
| d. Other Environmental: | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM | NAVAL AIR FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 2.75.96U | 211-152 | QFQE943006 | 4,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| NAVAL AIR FACILITY | SF | 28,000 | 125 | 3,500 |
| SUPPORTING FACILITIES | | | | 1,020 |
| UTILITIES | LS | | | ( 455) |
| PAVEMENTS | LS | | | ( 210) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| FIRE PROTECTION MAINS | LS | | | ( 70) |
| COMMUNITCATIONS SUPPORT | LS | | | ( 70) |
| SECONDARY CONSTRUCTION (BLDG 538) | SF | 57,000 | 2 | ( 115) |
| SUBTOTAL | | | | 4,520 |
| CONTINGENCY (5%) | | | | 226 |
| TOTAL CONTRACT COST | | | | 4,746 |
| SUPERVISION, INSPECTION AND OVERHEAD (2.5%) | | | | 119 |
| TOTAL REQUEST | | | | 4,865 |
| TOTAL REQUEST (ROUNDED) | | | | 4,800 |

10. Description of Proposed Construction: A hangar including necessary administrative, storage, and work space. Work also includes minor modifications to a current hangar (Bldg 538) for relocation purposes. Provide required electrical, mechanical, and communications support. Provide required security and fire protection.

11. REQUIREMENT: As required.
PROJECT: Construct a hangar for general purpose aircraft maintenance.
REQUIREMENT: See classified DD Form 1391.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| NAVAL AIR FACILITY | QFQE943006 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 93 MAR 15 |
| (b) Percent Complete as of Jan 93 | | % |
| (c) Date 35% Designed | | 93 AUG 15 |
| (d) Date Design Complete | | 94 JAN 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 265 |
| (b) All Other Design Costs | | |
| (c) Total | | 265 |
| (d) Contract | | 265 |
| (e) In-house | | |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONSTR COST INDEX |
|---|---|---|
| VARIOUS LOCATIONS | | |

| 6. PERSONNEL STRENGTH: | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFFICER | ENLISTED | CIVILIAN | OFFICER | ENLISTED | CIVILIAN | OFFICER | ENLISTED | CIVILIAN | |
| a. AS OF | | | | | | | | | | |
| b. END FY 19 | | | | | | | | | | |

7. INVENTORY DATA ($000)

a. TOTAL ACREAGE
b. INVENTORY TOTAL AS OF .....
c. AUTHORIZATION NOT YET IN INVENTORY .....
d. AUTHORIZATION REQUESTED IN THIS PROGRAM .....
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM .....
f. PLANNED IN NEXT THREE PROGRAM YEARS .....
g. REMAINING DEFICIENCY .....
h. GRAND TOTAL .....

8. PROJECTS REQUESTED IN THIS PROGRAM:

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS COMPLETE |
|---|---|---|---|---|---|
| 010-211 | Planning & Design | LS | 63,180 | | |

DD FORM 1 DEC 68 1390 PREVIOUS EDITION IS OBSOLETE IN THE USAF.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS | PLANNING & DESIGN |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.11D | 010-211 | PAYZ944016 | 63,180 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PLANNING AND DESIGN | LS | | | 63,180 |
| SUBTOTAL | | | | 63,180 |
| TOTAL CONTRACT COST | | | | 63,180 |
| TOTAL REQUEST | | | | 63,180 |
| TOTAL REQUEST (ROUNDED) | | | | 63,180 |

10. Description of Proposed Construction: The funds requested will be used to provide financing for architectural and engineering services and construction design for Air Force Military Construction Programs.

11. REQUIREMENT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY 95 Military Construction Program, initiate design of facilities in the FY 96 Military Construction Program and accomplish planning and design for major and complex technical projects with a long lead-time to be included in subsequent Military Construction Programs. Also provides funds for value engineering and for the support of construction management activities of projects that are funded by foreign governments and for design of classified and special programs.

| 1. COMPONENT | FY 19 94 MILITARY CONSTRUCTION PROGRAM | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONSTR COST INDEX |
|---|---|---|
| VARIOUS LOCATIONS | | |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFFICER | ENLISTED | CIVILIAN | OFFICER | ENLISTED | CIVILIAN | OFFICER | ENLISTED | CIVILIAN | |
| a. AS OF | | | | | | | | | | |
| b. END FY 19 | | | | | | | | | | |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. TOTAL ACREAGE | |
| b. INVENTORY TOTAL AS OF | |
| c. AUTHORIZATION NOT YET IN INVENTORY | |
| d. AUTHORIZATION REQUESTED IN THIS PROGRAM | |
| e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM | |
| f. PLANNED IN NEXT THREE PROGRAM YEARS | |
| g. REMAINING DEFICIENCY | |
| h. GRAND TOTAL | |

8. PROJECTS REQUESTED IN THIS PROGRAM

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS COMPLETE |
|---|---|---|---|---|---|
| 010-211 | Minor Construction (Unspecified) | LS | 6,844 | | |

DD FORM 1 DEC 68 1390 PREVIOUS EDITION IS OBSOLETE IN THE USAF.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS | UNSPECIFIED MINOR CONSTRUCTION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.11M | 010-211 | PAYZ924015B | 6,844 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNSPECIFIED MINOR CONSTRUCTION | LS | | | 6,844 |
| SUBTOTAL | | | | 6,844 |
| TOTAL CONTRACT COST | | | | 6,844 |
| TOTAL REQUEST | | | | 6,844 |
| TOTAL REQUEST (ROUNDED) | | | | 6,844 |

10. Description of Proposed Construction: Provide a lump sum amount for unspecified construction projects, not otherwise authorized by law, having a funded cost between $300,000 and $1,500,000, including construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC 2805.

11. REQUIREMENT: As required.

REQUIREMENT: This package provides the means of accomplishing urgent projects that are not identified but which are anticipated to arise during FY 94. Included would be projects to support new mission requirements, support of new equipment and concepts and other essential support to Air Force missions and functions that could not wait until availability of FY 95 Military Construction Program funds. 10 USC 2805 provides authority to the Secretaries of the military departments to accomplish projects of this nature.

# DEFENSE ACCESS ROADS

| 1 COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA | 2 DATE |
|---|---|---|
| AIR FORCE | | |

| 3 INSTALLATION AND LOCATION | 4 PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS | ACCESS ROADS |

| 5 PROGRAM ELEMENT | 6 CATEGORY CODE | 7 PROJECT NUMBER | 8 PROJECT COST ($000) |
|---|---|---|---|
| 1.11.27 | 851-147 | | 7,150 |

9 COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ACCESS ROADS | LS | | | 7,150 |

10 DESCRIPTION OF PROPOSED CONSTRUCTION Firance construction of: (1) new off-station entrances for Air Force activities or new connections between Air Force activities; (2) urgently needed improvements of existing highways serving activities; (3) Federal Government's share of cost of relocating highways served by expansion or construction of new Air Force facilities; (4) alterations to roads near Air Force activities to accommodate special military vehicles; and (5) contractor damage to roads servicing missile bases. Funds provided will be transferred to the Federal Highway Administration of the Department of Transportation which is responsible for assuring proper execution of the work under Title 23 U.S. Code 210.

11. REQUIREMENT: As Required.

These funds are required to provide access roads under authorization contained in Title 23 U.S. Code 210, as amended. Access road items are required for construction, improvements, replacement or relocation of public highways necssitated by construction of new or expansion of existing Air Force activities which result in a sudden and significant impact on the adjacent highway system. Such items are also vital for relocation of highways to satisfy airway-highway or explosive-clearance criteria. Highways located within the boundaries of a military reservation are not eligible for financing from these funds. Projects in the regular Federal Aid Primary Systems are not normally considered eligible for financing with these funds (exceptions may occur for bases such as special vehicles, weapons safety, or other extraordinary impact generated by Air Force requirements.



* U.S. GOVERNMENT PRINTING OFFICE: 1988-201-372:80625

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WHITEMAN AIR FORCE BASE, MISSOURI | B-2 DEFENSE ACCESS ROADS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.11.27 | 851-147 | YWHG939302 | 7,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| B-2 DEFENSE ACCESS ROADS | LS | | | 5,395 |
| SUPPORTING FACILITIES | | | | 1,010 |
| SITE IMPROVEMENTS | LS | | | ( 555) |
| PAVEMENTS | LS | | | ( 455) |
| SUBTOTAL | | | | 6,405 |
| CONTINGENCY (5%) | | | | 320 |
| TOTAL CONTRACT COST | | | | 6,725 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 404 |
| TOTAL REQUEST | | | | 7,129 |
| TOTAL REQUEST (ROUNDED) | | | | 7,150 |

10. Description of Proposed Construction: Demolish existing pavements, reconstruct a wider road with adequate subbase and asphalt pavement. Includes concrete curbs, storm drains, street and traffic lighting. Relocate buried utilities and stripe roads.

11. REQUIREMENT: As required.

PROJECT: Construct defense access roads. (New Mission)

REQUIREMENT: Provide required safe access to the base gates on the west side of the base from State Highway 23 and US Highway 50, via a diamond interchange and connector to State route 132. This is the last phase of a multi-phase effort.

CURRENT SITUATION: FY 91 B-2 MILCON funds constructed bridges, installed roadway subbase in areas of Highway 50/23/Route 132 connector and upgraded subbase and pavement on existing route 132. However, these public access roads to the base are still inadequate for any increased traffic volume. Although the preceeding work improved the condition of the existing roads to Whiteman AFB, it did not increase the volume of traffic they could safely accommodate. After a defense access road "needs" report submittal to the Military Traffic Management Command (MTMC, US Army) for review, validation and coordination with federal, state, and local transportation agencies, MTMC determined that widening Route 132 from the base to Route 50, constructing an interchange at the intersection of Routes 132, 23 and 50, and realigning State Route 23 are all needed to handle traffic volume. All are eligible for federal funding.

IMPACT IF NOT PROVIDED: Public access roads, US Highway 50, State Highway 23 and State Route 132 leading to and from the base, will remain inadequate to handle traffic volume. Without these improvements, significant traffic hazards will go unabated. Excess volume on the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 DEFENSE ACCESS ROADS | YWHG939302 |

existing roads will make driving unsafe as will traffic entering arterial Highway 50 from a perpendicular secondary state road.
ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will meet operational requirements. Consequently, a full economic analysis was not performed. A certificate of exclusion has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," nor in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| B-2 DEFENSE ACCESS ROADS | YWHG939302 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 MAY 06 |
| (b) Percent Complete as of Jan 93 | | 65% |
| (c) Date 35% Designed | | 92 SEP 20 |
| (d) Date Design Complete | | 93 JUL 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 300 |
| (b) All Other Design Costs | | 100 |
| (c) Total | | 400 |
| (d) Contract | | |
| (e) In-house | | 400 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS | PROJECTS $1 MILLION AND UNDER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| | | | |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| | | | | |

10. Description of Porposed Construction:
Following are individual justification paragraphs for all projects $1 million and under.

VARIOUS LOCATIONS - WITHIN THE UNITED STATES
VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| ALABAMA | | |
| GUNTER ANNEX ANX (AUN)<br>JUBJ943087<br>442-257 | HAZARDOUS WASTE ACCUMULATION FACILITY | 310 |

Construct a hazardous waste accumulation facility. (Current Mission) A facility is required with proper environmental controls to accumulate hazardous materials. These materials include, but are not limited to: hazardous paints, thinners, acids, solvents, flammables, gas cylinders, and various grease and oils. The facility must have fire protection and spill preventibn systems. There is no existing hazardous waste accumulation facility on Gunter that meets the life safety or environmental requirements. Currently wastes are staged at the satellite point, in violation of current regulations. The base will continue to function in violation of the Resource Conservation and Recovery Act (RCRA) and will be subject to Notice of Violations and fines.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| HAZARDOUS WASTE ACCUMULATION FACILITY | JUBJ943087 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 18 |
| (b) All Other Design Costs | 34 |
| (c) Total | 52 |
| (d) Contract | |
| (e) In-house | 52 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| ALABAMA | | |
| GUNTER ANNEX ANX (AUN)<br>JUBJ943091<br>831-000 | SPILL CONTAINMENT CONTROLS | 470 |

Provide structures to contain spills and prevent the discharge of pollutants into the waters of the United States. (Current Mission) This is a Level I environmental compliance project. The Clean Water Act requires measures to prevent the discharge of pollutants into the waters of the United States. Oil water separators are required on vehicle and equipment washing facilities. Rainfall runoff cannot enter the sanitary sewer through base facilities. The base cannot ensure containment of a spill within its boundaries. Clean up would take place in a tributary of the Alabama River or in a public park. The base is in violation of the National Pollution Discharge Elimination System (NPDES) Permit. Vehicle and equipment washing facilities and building floor drains discharge directly to storm water drainage system without oil water separators. Gunter will continue to be in violation of the Clean Water Act and the NPDES permit. A spill into the sanitary sewer would contaminate a publicly owned treatment facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, GUNTER ANNEX, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SPILL CONTAINMENT CONTROLS | JUBJ943091 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 28 |
| (b) All Other Design Costs | 51 |
| (c) Total | 79 |
| (d) Contract | |
| (e) In-house | 79 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| ALABAMA | | |
| MAXWELL AFB (AUN)<br>PNQS943090<br>831-000 | SPILL CONTAINMENT CONTROLS | 970 |

Provide structures to contain spills and prevent the discharge of pollutants into the waters of the United States. (Current Mission) The Clean Water Act requires measures to prevent the discharge of pollutants into the waters of the United States. Oil/water separators are required on vehicle and equipment washing facilities. Rainfall runoff must be prevented from entering the sanitary sewer through base facilities. The base cannot ensure containment of a spill within its boundaries, posing a serious contamination risk for the Alabama River and a tributary next to a major public road. The base is currently in violation of the National Pollution Discharge Elimination System (NPDES) permit. Vehicle and equipment washing facilities and building floor drains discharge directly into the storm water drainage system without oil/water separators. Maxwell will continue to be in violation of the Clean Water Act and the NPDES permit. A spill into the sanitary sewer will contaminate a publicly owned treatment plant. The base spilled 4,500 gallons of heating fuel into the sanitary sewer in 1989 and was issued NOVs which required the pumping, transporting, storing and disposing of 70,000 gallons of contaminated sanitary sewage.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SPILL CONTAINMENT CONTROLS | PNQS943090 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 58 |
| (b) All Other Design Costs | 72 |
| (c) Total | 130 |
| (d) Contract | |
| (e) In-house | 130 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| ARIZONA | | |
| DAVIS-MONTHAN AFB (ACC)<br>FBNV943007<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 650 |

Remove/replace underground storage tanks (USTs). (Current Mission) This is a level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy base mission requirements. All petroleum dispensing and operating facilities must be provided with a means for detecting and preventing release of pollutants into the surrounding environment. All USTs must be upgraded in accordance with federal law (40 CFR 280.21) by December 1998. This includes leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment. Underground storage tanks at Davis-Monthan AFB do not meet federal requirements for corrosion protection, secondary containment, and overfill/spill protection. The condition of these tanks varies with a majority of the tanks at or exceeding their design life. These deficiencies must be corrected to prevent violation of federal UST regulations. If underground storage tanks require replacement, Air Force policy is to replace them with aboveground tanks or relocate them into underground vaults, whenever possible. Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment along with extremely costly cleanup measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines and significant adverse publicity. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | FBNV943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 02 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 30 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 30 |
| (b) All Other Design Costs | 10 |
| (c) Total | 40 |
| (d) Contract | |
| (e) In-house | 40 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| ARIZONA | | |
| LUKE AFB (ACC)<br>NUEX943004<br>179-511 | FIRE TRAINING FACILITY | 800 |

Construct a fire training facility. (Current Mission) This is a Level I environmental compliance project. A live fire training facility meeting all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency in extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent groundwater from becoming contaminated by residual unburned fuel. The existing facility does not have high-density polyethylene flexible liners and nets, a leak detection system, or spill containment capability. Continued use of the existing facility and site is prohibited due to non-compliance with State and Federal environmental regulations. Fire training at the current site was discontinued in September 1991. Required live fire training exercises cannot be conducted. The current site is an Installation Restoration Program site on the National Priority List. The existing facility was built in 1973 and includes an aircraft mock-up, a smoke house, a drafting pit, fire hydrant, and a fuel storage tank. The mock-up is located in a shallow, gravel-covered earthen pit without a protective liner which provides no protection to the surrounding soil and ground water. The existing fire training facility will remain out of compliance with State and Federal environmental laws. Firefighter proficiency will not be maintained. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An Economic Analysis is not required for this project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LUKE AIR FORCE BASE, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY | NUEX943004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 22 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 JUL 30 |
| (d) Date Design Complete | 93 JUN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 44 |
| (b) All Other Design Costs | 62 |
| (c) Total | 106 |
| (d) Contract | 44 |
| (e) In-house | 62 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| COLORADO | | |
| USAF ACADEMY (AFA)<br>XQPZ940031<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 780 |

Remove and replace nine underground storage tanks. (Current Mission) This is a Level II environmental compliance project to upgrade by replacement underground storage tanks (other than those exempted and deferred by the Code of Federal Regulations, Title 40, Part 280) to new construction standards by December 1998. The Environmental Protection Agency (EPA) has set standards that require all underground tanks to have leak detection, corrosion protection, and spill/ overflow prevention systems. Air Force policy is to replace underground tanks with aboveground tanks where operational constraints do not dictate otherwise. This project will bring the Air Force Academy into compliance with established Federal and state regulations governing underground storage tanks. The majority of the USTs at the Air Force Academy are approaching the end of their design lives and are in need of replacement. All nine tanks are out of compliance with the 1998 EPA standards. Many of the single-walled tanks are located in extremely permeable soil with ground water within 10 feet of the tank, and any leak would have serious contamination potential. The existing tanks require annual tightness testing, daily fluid level monitoring, and monthly inventory reconciliation and control because they lack the proper continuous monitoring equipment. If these tanks are not replaced, the risk of environmental damage is increased. Failure to bring the USTs into environmental compliance will result in the Air Force Academy receiving a Notice of Violation (NOV) from the regulators. This will ultimately result in fines and unfavorable publicity for the Air Force. All tanks must meet regulations or be permanently closed. There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | XQPZ940031 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 APR 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 MAY 11 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 47 |
| (b) All Other Design Costs | 59 |
| (c) Total | 106 |
| (d) Contract | 70 |
| (e) In-house | 36 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| DELAWARE | | |
| DOVER AFB (AMC)<br>FJXT943002<br>211-159 | INSTALL EMISSION CONTROL DEVICES | 860 |

Install emission control devices. (Current Mission) This is a Level II environmental compliance project. Project is required to attain and maintain compliance with federal law and applicable regulations limiting the exhaust of volatile organic compounds (VOC). This legislation requires that Dover AFB use Maximum Available Control Technology (MACT) to reduce emissions of hazardous air pollutants by more than 90%. Dover currently produces 321 tons of VOC per year and must reduce these emissions to 32.1 tons per year. This project will enable Dover AFB to reduce VOC emissions at fuel transfer/storage locations, coating and cleaning operations and incinerator facilities. The base has contracted a firm to study air emissions on Dover. It evaluated liquid fuels and de-icer storage and transfer, stationary fuel burning sources, 40 industrial shops, three incinerators and mobile sources to include aircraft and vehicles. The study has determined that Dover AFB is a major stationary source of air emissions per federal Prevention of Serious Deterioration (PSD) Regulations, contained in 40 CFR 52.21. The study recommends that no major modifications be made to base boilers or liquid fuel operations without a PSD permit or reduction of emissions or both. The State of Delaware has been included within an interstate ozone implementation of Reasonable Available Control Technology (RACT) to reduce VOC emissions. Dover AFB does not meet the statutory requirements of the Clean Air Act Amendments (CAAA) of 1990. When the regulations are enacted in 1992, the base will be out of compliance. Non-compliance with the VOC/AIR emission statutes would subject Dover AFB to the potential for notices of violation, compliance orders and fines. Regulators could shut-down the liquid fuel, deicing or industrial shops which would shut-down flying operations. There is no criterial/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INSTALL EMISSION CONTROL DEVICES | FJXT943002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 OCT 12 |
| (b) Percent Complete as of Jan 93 | | 2% |
| (c) Date 35% Designed | | 93 MAR 15 |
| (d) Date Design Complete | | 93 JUL 14 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 50 |
| (b) All Other Design Costs | | 63 |
| (c) Total | | 113 |
| (d) Contract | | 75 |
| (e) In-house | | 38 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| FLORIDA | | |
| CAPE CANAVERAL AFS (SPC)<br>DBEH933103<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 400 |

Remove, replace, or upgrade fuel storage tanks. (Current Mission). This is a Level II environmental compliance requirement. Tanks must be in compliance with DoD, Federal and State environmental regulations. These include the Air Force UST Management Strategy, Federal Regulation 40 CFR 280 and Florida Department of Environmental Regulations (FDER) 17.761 and 17.762. Seven regulated USTs require secondary containment or leak detection for piping systems and overflow protection/dispenser lines by Dec 1998 per Florida (FDER) 17.61.510 (6) Table 1, installed after 1984: R,P, & L required. Two USTs will be removed and five upgraded. Twelve regulated AST systems require overfill protection by Dec 1999 in accordance with Florida (FDER) 17.72.520(1)(a). Seven UST and eleven AST systems are regulated and are subject to 1998 and 1999 deadlines, respectively. Tanks will age and further deteriorate. There will be a continued risk of leaks and spills which would be harmful to CCAFS natural resources and personnel. The Installation will be out of compliance with Federal and State regulations and subject to fines. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | DBEH933103 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 24

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| FLORIDA | | |
| CAPE CANAVERAL AFS (SPC)<br>DBEH943007<br>811-147 | SLFI - BACKUP POWER | 800 |

Provide backup power and SSUPS to the Central Telemetry Facility and Delta Integration & Checkout Facility. (Current Mission) This is a Space Launch Facilities Infrastructure (SLFI) requirement. The Medium Launch Vehicle (Delta) Integration & Checkout Facility at Cape Canaveral needs backup generator and SSUPS capability in order to avoid delays in testing of Delta launch vehicle equipment due to power outage or voltage fluctuations. The Central Telemetry Facility (located across the Banana River from Cape Canaveral) requires backup generator and SSUPS capability to avoid delays in launches. The SSUPS will be procured with equipment funds. The facilities currently have no backup power. When power outages or voltage fluctuations occur at the Medium Launch Vehicle Checkout Facility, critical testing of Delta launch vehicle equipment is aborted and must be rescheduled. Without the Central Telemetry Facility in full operation, launch schedules must be suspended. Power outages/fluctuations equate to delayed launch schedules. With the increasing frequency of launches, delays can generally affect future launch timetables, not just the current one. Missions impacted include Defense Satellite Communications System (DSCS), Global Positioning System (GPS), Defense Meteorological Satellite Program (DMSP), Shuttle, and classified launches. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2, "Standard Facilities Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI - BACKUP POWER | DBEH943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 12 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 AUG 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 48 |
| (b) All Other Design Costs | 33 |
| (c) Total | 81 |
| (d) Contract | 65 |
| (e) In-house | 16 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| SOLID STATE UPS | 3080 | 1994 | 170 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| VARIOUS LOCATIONS - WITHIN THE UNITED STATES | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| PROJECTS $1 MILLION AND UNDER | | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| GEORGIA | | |
| ROBINS AFB (MTC)<br>UHHZ923007<br>218-712 | AIRCRAFT SUPPORT EQUIPMENT PAINT FACILITY | 970 |

Construct an aircraft support equipment paint facility. (Current Mission) This is a Level II environmental compliance project. A fully enclosed, environmentally controlled high-bay facility is required for cleaning and painting of tail stands, wing platforms, and other aircraft support equipment used in performing depot maintenance of large military aircraft. This project is needed to sustain compliance with air pollution limits pursuant to Georgia Permit 9711-076-10153 as regulated under Georgia Air Quality Regulation 391-3-1-.03, and to meet emission standards defined by Georgia Air Quality Regulation 391-3-1-.02(2)(a) pertaining to protection of personnel and the environment. Clean Air Act amendments of 1990 require that these standards be enforced by 1995. Functional aircraft support equipment is essential in depot maintenance operations. All equipment needs to be stripped of paint, repaired as necessary and repainted periodically to extend service life of the equipment. One fifth of the inventory is painted annually. Some tail stands require at least 60 feet vertical clearance. Robins AFB does not have a facility for stripping and painting of large aircraft support equipment. As such, stripping (sand blasting) and painting operations are performed outdoors but only on dry days when winds are calm. Even under these conditions, grit and dirt can contaminate painted articles, paint overspray can damage vehicles and equipment, and personal health hazard may occur. Also, emissions must be controlled to meet state air emission standards. Currently, weather conditions dictate when corrosion control activities can be performed, resulting in delays and inefficiencies. As there are no installed control devices for reducing air emissions generated by this operation and the total base emissions exceed 80 percent of the allowable level, continued outdoor stripping and painting will place the base in violation of air quality standards and permit conditions by 1995. Robins AFB will be in jeopardy of exceeding the 100 Ton/year limitation on basewide VOC emissions, resulting in fines or a court order to cease outdoor painting. Additionally, manpower will continue to be wasted when high winds dictate cessation of paint spraying and stripping operations, and the Air Force could be subjected to claims for damage of private property. Suspension of equipment painting would increase corrosion and render equipment unsafe, impacting mission capabilities within one year. The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in May 1990. There is no criteria/scope for this project in Part II of Military

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|

Handbook 1190, "Facility Planning and Design Guide". The project scope was developed based upon the size and quantity of equipment to be painted.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT SUPPORT EQUIPMENT PAINT FACILITY | UHHZ923007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 SEP 20 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 15 |
| (d) | Date Design Complete | 93 JUN 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | YES |
| (b) | Where Design Was Most Recently Used - | ROBINS |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 23 |
| (b) | All Other Design Costs | 70 |
| (c) | Total | 93 |
| (d) | Contract | 56 |
| (e) | In-house | 37 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| KANSAS | | |
| MCCONNELL AFB (CSV)<br>PRQE925001<br>149-962 | CONTROL TOWER CAB | 900 |

Construct new 540 square foot air traffic control tower cab. (Current Mission) A new air traffic control tower cab to accommodate up to 11 air traffic control personnel, air traffic control communication equipment, crew briefings, operations and training functions. The McConnell control tower was constructed in 1969. The cab was built to accommodate three controllers and the standard compliment of 1960s vintage equipment. The base mission and characteristics of the aircraft have changed significantly since then. The number of aircraft operations have increased, and McConnell now leads ACC bases in air traffic control operations with over 110,000 take-offs and landings annually. McConnell is home base for one B1-B squadron, one KC-135R squadron, one Air National Guard combat-ready F-16 fighter squadron, and two Air National Guard F-16 training squadrons. As a result, more air controllers and equipment are needed than in 1969 to cover the expanded airfield operations. Overcrowded cab conditions limit air traffic controller mobility and impact controller communications with pilots. These conditions, coupled with the additional effort required to safely control inexperienced F-16 fighter training pilots, create conditions that could jeopardize pilot safety and cause aircraft loss. The project is part of the Air Force Control Tower Upgrade Program managed by Air Force Communications Command (AFCC). There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide," or in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCONNELL AIR FORCE BASE, KANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONTROL TOWER CAB | PRQE925001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 17 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 92 OCT 14 |
| (d) Date Design Complete | 93 APR 04 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 54 |
| (b) All Other Design Costs | 20 |
| (c) Total | 74 |
| (d) Contract | 49 |
| (e) In-house | 25 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| VARIOUS LOCATIONS - WITHIN THE UNITED STATES | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| PROJECTS $1 MILLION AND UNDER | | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| KANSAS | | |
| MCCONNELL AFB (ACC)<br>PRQE910077<br>921-167 | LAND RESTRICTIVE EASEMENT ACQUISITION | 1000 |

Land restrictive easement acquisition. (Current Mission) To establish a permanent interest in a northern clear zone which will enable the Air Force to control construction which could affect navigable air space, to limit land uses to those compatible with the noise environment associated with military flying installations and to reduce public exposure to hazards associated with flying missions. Obtain from the land owner an environmental baseline report acceptable to the Air Force and detailing the extent and type of any contamination on the land to be acquired under this easement. The land immediately adjacent to the northern boundary of McConnell AFB is owned by Cessna Aircraft Company, a subsidiary of General Dynamics, who may legally develop the property in accordance with recently adopted city/county Airport Overlay District (AOD) guidelines. Such development could be in conflict with base operations. The eastern two thirds of the northern clear zone is undeveloped land used primarily for agriculture and is included in the proposed easement. The remaining one third of the clear zone is developed property containing Cessna manufacturing facilities. The cost to obtain an easement on this tract is prohibitive. While AOD generally follows Air Force Air Installation Compatibility Use Zone (AICUZ) land use recommendations, some differences do exist. AICUZ allows only non-livestock agriculture in the clear zone, while AOD guidelines allow parking lots, storage areas/yards, aircraft runways and taxiways, cemetaries and all agriculture. Cessna could also pursue litigation to legally change zoning regulations for specific uses which could be incompatible with McConnell's flying mission. The cost to fee purchase this tract is equal to or slightly more than the cost to obtain this restrictive perpetual easement. Fee ownership is not being pursued due to an existing contamination problem on this tract and liability issues for the Air Force under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The Air Force is not responsible for generating any of this contamination. The restrictive easement will be written so that any environmental liabilities will be borne by Cessna through indemnity and lease provisions in the easement Cessna is to retain all responsibility for remediating the site. Incompatible development in the runway clear zone could impact flying operations at this installation and could jeopardize the safety of people and property.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCONNELL AIR FORCE BASE, KANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| LAND RESTRICTIVE EASEMENT ACQUISITION | PRQE910077 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 SEP 29 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 NOV 10 |
| (d) Date Design Complete | | 93 MAY 10 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | |
| (b) Where Design Was Most Recently Used - | | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 10 |
| (b) All Other Design Costs | | |
| (c) Total | | 10 |
| (d) Contract | | |
| (e) In-house | | 10 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| LOUISIANA | | |
| BARKSDALE AFB (ACC)<br>AWUB935001<br>872-247 | WEAPONS STORAGE AREA SECURITY | 960 |

Weapons storage area security improvements. (Current Mission) Adequate Weapons Storage Area (WSA) security to deter or delay intrusion and meet Department of Defense (DOD) protection criteria as identified in DOD Manual 5210.41. Department of Defense guidelines for security of Weapons Storage Areas require specific fence heights, and anchoring and stabilizing systems to ensure the integrity of security devices. A "double fence" system is required which includes an outer six- foot-high animal control fence to reduce false alarms from security sensors, and an inner 7-foot-high (plus outrigger) security fence on which sensors are mounted. Inner fences must be capable of supporting installation of second generation Fence Protection System sensors scheduled for installation in the future. All WSAs also require interior and exterior all weather access to permit a five-minute response time for any security alarm or incident. This project corrects a nuclear surety deficiency. The existing WSA fence does not meet DOD standards for fence height and does not meet security requirements. For example, fence braces are on the outside of the secure zone which makes the fence easy to scale. In addition, the fence is old and will not support installation of new second generation Fence Protection System sensors scheduled to be installed in June 1994 at a cost of $2.3M. Current patrol roads are in poor condition and do not permit all weather response in accordance with DOD timing criteria. Inclement weather vehicle patrols are impeded by adverse terrain and swampy conditions in many areas adjacent to the WSA. This is the largest WSA in the Command. It is too large to effectively cover by foot patrol. This project will also remove an existing old and unneeded fence which is located between the required interior/exterior fences. This project will eliminate four DOD nuclear security/surety waivers and variances. Security for critical and sensitive munitions assets will not meet DOD requirements. Waivers will be required to continue use of the WSA. If waivers cannot be obtained, the base mission cannot be executed. Installation of second generation security sensors will be delayed until an adequate interior fence is provided. Security for munitions will be jeopardized, with possible major consequences and adverse publicity should the area be penetrated by unauthorized personnel. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WEAPONS STORAGE AREA SECURITY | AWUB935001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 12 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 01 |
| (d) Date Design Complete | 93 JUN 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 57 |
| (b) All Other Design Costs | 53 |
| (c) Total | 110 |
| (d) Contract | |
| (e) In-house | 110 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| DTR 90 VERTICAL TAUT WIRE SENSORS/FENCE PROTECTION SYS-2 | 3080 | 94 | 2300 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| MARYLAND | | |
| ANDREWS AFB (AMC)<br>AJXF953020<br>179-511 | FIRE TRAINING FACILITY (DBOF) | 1000 |

Construct fire training facility. (Current Mission) This is a Level II environmental compliance project. A live fire training facility is required to meet all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and contaminating the groundwater. The existing live fire training facility violated EPA pollution standards and was closed 30 April 1990. It is inadequate for training as defined by Air Force regulation. The current aircraft mock-up is smaller than the required size and is not accessible for multi-directional approaches creating an artificial environment which limits the quality of training. The existing facility does not have high-density polyethylene flexible membrane liners and nets, a leak detection system, and spill containment capability. There are no environmentally approved live fire training facilities in the local area. The existing facility is closed because of previous violations of environmental requirements. Required live fire training for the assigned fire fighters is not available. Without the stress and realism that come only with live fires, the fire fighters lose proficiency in combating fires. The potential for loss of aircraft and life is increased. There are no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | AJXF953020 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 10 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 OCT 31 |
| (d) Date Design Complete | 93 OCT 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | SCOTT |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 60 |
| (b) All Other Design Costs | 20 |
| (c) Total | 80 |
| (d) Contract | 60 |
| (e) In-house | 20 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| MISSISSIPPI | | |
| KEESLER AFB (ATC)<br>MAHG943009<br>179-511 | FIRE TRAINING FACILITY | 690 |

Construct a fire training facility. (Current Mission) This is a Level I environmental compliance project. Air Force Regulation specifies that quarterly day and night live training be performed by all fire fighting personnel. Facility will allow all fire fighters to remain proficient in AFFF application techniques and aircraft crash rescue fire fighting. The existing site was closed in June 1991 due to groundwater contamination from previous exercises and is currently designated as an IRP site undergoing remedial investigation. Since the closure, live fire training has ceased. Approximately seventy fire fighters would have to travel to another DOD or civilian facility for training. The cost for travel, per diem, and overtime pay for civilian fire fighters will be extremely high. Location and distance of the closest environmentally acceptable training facility will require overnight stays for training. Fire fighters will not remain proficient in aircraft crash fire fighting and rescue techniques. The safety of both firefighters and accident victims will continue to be compromised. TDY training is not feasible due to funded level of manning and mission support requirements. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY | MAHG943009 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 06 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 06 |
| (d) Date Design Complete | 93 AUG 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | REESE |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 40 |
| (b) All Other Design Costs | 50 |
| (c) Total | 90 |
| (d) Contract | 60 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| MISSISSIPPI | | |
| KEESLER AFB (ATC)<br>MAHC933003<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 600 |

Upgrade or replace existing underground storage tanks. (Current Mission) This is a Level II environmental compliance project. Upgrade all underground storage tanks (USTs) regulated by Title 40 Code of Federal Regulations, part 280 to new Environmental Protection Agency (EPA) standards. The EPA has set standards requiring all USTs to have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. Existing USTs must be upgraded to comply with new standards, replaced with new UST systems, or replaced with aboveground tanks. Tanks range in age from 10 to 48 years. Cathodic action continues to weaken tanks increasing potential for leaks. USTs have to be leak-tested annually until they are upgraded with permanent leak detection systems. Testing costs are estimated at about $1,000 per UST. Installation of permanent leak detection systems will eliminate recurring testing costs. In addition, the various upgrades will also help prevent releases which could result in future AF liability and expensive cleanup costs. Command-wide testing activities accomplished to date indicate a leak test failure rate of approximately 5%. USTs included in this project supports power production, fuels maintenance, AAFES, and military service station operations. Potential shutdown of mission essential facilities as leaks occur. Annual expenditure for tank inspections will continue. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | MAHG933003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 27 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 10 |
| (d) Date Design Complete | 93 JUL 23 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | KEESLER |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 35 |
| (b) All Other Design Costs | 55 |
| (c) Total | 90 |
| (d) Contract | 60 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| NEW MEXICO | | |
| CANNON AFB (ACC)<br>CZQZ933002<br>116-665 | SOUND SUPPRESSOR SUPPORT PAD | 665 |

Provide support construction and utilities to accommodate installation of a sound suppressor facility. (Current Mission). Provide adequate sound suppression for the F-111 super wing with five flying squadrons. Sound suppressor facilities are required to perform aircraft engine tests, inspection, calibration, and repair. Sound suppressant qualities are required to eliminate health/occupational safety hazards and environmental problems associated with high noise levels created by aircraft engines running in military power and after-burner modes. The current delivery date for the sound suppressor is 1 June 1994. The current sound suppressors are running at 100% capacity. Adequate sound suppression facilities are not available to satisfy engine test stand and power pad requirements. The existing T-10 sound suppressors support 194 separate engines and 83 aircraft. Over the last year, 312 separate engines and 331 aircraft in the T-10 sound suppressors have been tested. This averages out to 26 separate engines and 28 aircraft run-ups per month. At Cannon AFB there are both the TF30P107 and TF30P109 engines which have a 0.9 hour Mean Time Between Maintenance (MTBM). Cannon AFB is projected to receive the TF30P111 engine with a 0.4 hour MTBM. The number of assigned aircraft will almost double within the next year. A majority of these will be the F-111F with the TF30P111 engine. Additionally, the spare engines and MTBM will increase the average monthly runs by 74 separate engines and 131 aircraft. The existing T-10 sound suppressors cannot handle this increased work load. A back log of engine/aircraft tests will result. Existing engine tests without adequate sound suppression will result in extreme noise levels which pose an occupational health hazard for maintenance personnel and are noise irritants to the adjacent community and work areas. The new sound suppressor will arrive 1 June 1994 but cannot be used until it is installed on this support pad. Effectiveness of engine maintenance will be compromised, severely limiting the wing's readiness. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide;" however, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CANNON AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SOUND SUPPRESSOR SUPPORT PAD | CZQZ933002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 02 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 JUL 17 |
| (d) Date Design Complete | 93 JUL 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 39 |
| (b) All Other Design Costs | 20 |
| (c) Total | 59 |
| (d) Contract | 39 |
| (e) In-house | 20 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| DEMOUNTABLE HUSH HOUSE | 3080 | 94 | 1500 |
| T-20 ENGINE TEST STAND | 3080 | 94 | 175 |
| ENGINE GENERATOR (MC-1A) | 3080 | 94 | 139 |
| MOTOR GENERATOR | 3080 | 94 | 9 |
| RECTIFIER (B-9) | 3080 | 94 | 2 |
| TOTAL | | | 1825 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| NEW MEXICO | | |
| CANNON AFB (ACC)<br>CZQZ943002<br>179-511 | FIRE TRAINING FACILITY | 1000 |

Construct a fire training facility. (Current Mission) This is a level I environmental compliance project. A live fire training facility meeting all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable firefighters to maintain a high level of proficiency by extinguishing two types of live fires; mass fuel spills and three dimehsional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent fuel from leaching into the ground and to prevent groundwater from becoming contaminated by residual unburned fuel. The existing fire training facility was closed in September 1991. The existing aircraft fire training facility does not have high-density polyethylene flexible liners and nets, a leak detection system, or spill containment capability. Use of the existing facility and site is prohibited due to non-compliance with State and Federal environmental regulations. The existing facility, which was built in 1977, includes an F-111 aircraft mock-up, a drafting pit, fire hydrant, and a fuel storage tank. The mock-up is located in a shallow, gravel-covered, earthen pit which has a liner that does not meet environmental standards. Pollutants have the potential to be released to the surrounding soil and ground water. Firefighters are unable to train using live fire. Currently the base relies on mock firefighting techniques to develop tactics and strategy. The existing fire training facilities will remain out of compliance with State and Federal environmental laws. Firefighter proficiency will not be maintained. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CANNON AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY | CZQZ943002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 MAY 19 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 92 JUL 07 |
| | (d) Date Design Complete | 93 JUL 09 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 40 |
| | (b) All Other Design Costs | 8 |
| | (c) Total | 48 |
| | (d) Contract | |
| | (e) In-house | 48 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| NEW MEXICO | | |
| HOLLOMAN AFB (ACC)<br>KWRD943014<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 1000 |

Remove/replace underground storage tanks (USTs). (Current Mission) This is a Level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy base mission requirements. All petroleum dispensing and operating facilities must be provided with a means for detecting and preventing release of pollutants into the surrounding environment. All USTs must be upgraded in accordance with federal law (40 CFR 280.21) by December 1998. This includes leak detection, corrosion protection and spill/overflow prevention systems. Underground storage tanks at Holloman AFB do not meet federal requirements for corrosion protection, secondary containment, and overfill/spill protection. The condition of these tanks varies with a majority of the tanks at or exceeding their design life. These deficiencies must be corrected to prevent violation of federal UST regulations. If underground storage tanks require replacement, Air Force policy is to replace them with aboveground tanks or relocate them into underground vaults, whenever possible. Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment along with extremely costly cleanup measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines and significant adverse publicity. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HOLLOMAN AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | KWRD943014 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 03 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 19 |
| (d) Date Design Complete | 93 AUG 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | |
| (b) All Other Design Costs | 8 |
| (c) Total | 8 |
| (d) Contract | |
| (e) In-house | 8 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| NORTH CAROLINA | | |
| SEYMOUR-JOHNSON AFB (ACC)<br>VKAC933005<br>610-144 | MUNITIONS MAINTENANCE SUPPORT FACILITY | 480 |

Construct a munitions maintenance support facility. (Current Mission) An adequate facility, remotely located from the base munitions maintenance explosive area, is required for personnel that are related to, but not directly involved in, the explosive operations of the base munitions maintenance function. This is required to comply with Department of Defense safety'regulations and OSHA Standards 1910.109. The current arrangement places administrative personnel in unnecessary danger within the munitions building. Although these workers are directly related to the function, safety regulations and OSHA standard 1910.109, require that they be separated from the actual maintenance area. Combat Munitions Unit concept allows an office/training area within the Quantity Distance Zone but removed from the actual maintenance shop. The existing working conditions of the munitions management personnel in the maintenance shop directly threatens the safety of life of these personnel. An exemption to Quantity Distance criteria has been granted by the Secretary of the Air Force which requires that a facility be provided and personnel be relocated by December 1993. The base will seek a short extension to allow personnel to remain in the existing facility until construction is complete. Munitions management and administration personnel will continue to work in a hazardous area and in violation of OSHA explosives safety standards. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS MAINTENANCE SUPPORT FACILITY | VKAG933005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 15 |
| (d) Date Design Complete | 93 APR 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 29 |
| (b) All Other Design Costs | 48 |
| (c) Total | 77 |
| (d) Contract | 52 |
| (e) In-house | 25 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| OKLAHOMA | | |
| ALTUS AFB (AMC)<br>AGGN943000<br>130-142 | C-17 FIRE STATION (DBOF) | 780 |

Construct C-17 fire station. (New Mission) A secondary fire station is needed to safeguard aircrews and aircraft on the assualt strip (FY91 MILCON) and parallel runway (FY92 MILCON). This fire station will allow prepositioning of crash-rescue vehicles in close proximity to these new launch and recovery surfaces. Air Force regulations require that the fire department be dble to respond to an unannounced aircraft emergency anywhere on the airfield within three minutes. Vehicles located at the base's single fire station cannot meet the response requirement to the new launch and recovery surfaces. Aircrew and aircraft will be at higher risk due to lack of fire protection in close proximity. Crash equipment will have to travel up to one mile further before they arrive at the accident scene. Minor accidents may become more severe, possibly resulting in the unnecessary loss of life, if the fire department cannot respond within three minutes. The base's airlift training and aerial refueling missions will be put at higher risk. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 FIRE STATION (DBOF) | AGGN943000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 AUG 15 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 SEP 17 |
| (d) Date Design Complete | | 93 MAY 21 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 47 |
| (b) All Other Design Costs | | 67 |
| (c) Total | | 114 |
| (d) Contract | | 82 |
| (e) In-house | | 32 |
| (4) Construction Start | | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| OKLAHOMA | | |
| TINKER AFB (CSV)<br>WWYK943030<br>131-132 | MILSTAR COMMUNICATIONS GROUND TERMINAL | 800 |

Construct a Milstar Communications Ground Terminal support facility. (New Mission) A properly sized facility is required to house one 60 KW generator, an uninterruptible power supply (UPS) system and electrical switchgear that will be used to provide a continuous power source to the Milstar Communications Ground Terminal located in a nearby facility. Since this facility houses emergency power equipment, the facility must be designed to Milstar facility specifications. The Milstar system, via satellites, provides the National Command Authority (NCA) with the only worldwide, secure, two-way, anti-jam, survivable, low probability of detection/interception voice and data communication capability. The Milstar communications equipment will be located in an existing facility. However, that facility has no available space to house the standby generator and UPS. Without this project, critical connectivity between NORAD/Space Command and other high priority users, including the NCA, would be lost during crises and deny the ability to command and control military forces through all levels of conflict. The Milstar terminal equipment for this site is scheduled for delivery in 1996. There are no criteria for this project in Air Force Manual 86-2, Standard Facility Requirements," or in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MILSTAR COMMUNICATIONS GROUND TERMINAL | WWYK943030 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 NOV 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 15 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 48 |
| (b) All Other Design Costs | 42 |
| (c) Total | 90 |
| (d) Contract | 60 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| MILSTAR TERMINAL EQUIPMENT | 3080 | FY 95 | 4200 |
| EHF ANTENNA SUPPORT SHELTER | 3080 | FY 95 | 250 |
| SOLID STATE UPS SYSTEM | 3080 | FY 95 | 200 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| OKLAHOMA | | |
| TINKER AFB (MTC)<br>WWYK880037<br>411-135 | SEAL FUEL CONTAINMENT DIKES | 620 |

Seal two fuel containment dikes. (Current Mission) This is a Level I environmental compliance requirement. Secondary containment around fuel storage areas is needed to contain all liquid petroleum which may spill from above-ground fuel storage tanks in event of tank rupture. The Federal Oil Pollution Prevention Regulation (40CFR, Section 112.7(e)(2)) requires impervious secondary containment for above ground tanks. This project is needed to seal the dikes and prevent the fuel from penetrating the ground or the dikes and polluting the soil and aquifer. Existing earthen dikes are not impervious and are coated with asphalt to reduce erosion. The base of the diked area is sand and gravel which permit leaching to the aquifer. The dikes cannot contain spilled fuel and do not meet criteria stated in the Federal Oil Pollution Prevention Regulation (Code of Federal Regulations, Title 40, Section 112) and comparable state laws. In event of a fuel spill, surrounding soil and the underlying aquifer will be quickly contaminated causing significant damage to the environment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SEAL FUEL CONTAINMENT DIKES | WWYK880037 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 25 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 15 |
| (d) Date Design Complete | 93 SEP 17 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 36 |
| (b) All Other Design Costs | 41 |
| (c) Total | 77 |
| (d) Contract | |
| (e) In-house | 77 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| SOUTH CAROLINA | | |
| SHAW AFB (ACC)<br>VLSB943007<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 520 |

Upgrade/remove/replace underground storage tanks (USTs). (Current Mission) This is a Level II environmental compliance project. Upgrade/remove/replace approximately 57 regulated storage tank systems to meet requirements of 40 CFR 280. The Environmental Protection Agency has set standards that require all regulated tank systems to have leak detection, corrosion protection, and spill/overflow prevention systems. If tank systems are to be replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults, wherever possible. However, existing petroleum product storage tanks which are in good condition may be upgraded in place to bring them into compliance with applicable environmental regulations. Over the past 20 years tanks have been installed without cathodic protection, leak detection, and spill/overfill protection. These tanks must be upgraded in order to remain in service after December 1988. Removal, replacement, or upgrade in-place will be required to assure a leak-free environment and compliance with federal and state laws. Undetected tank releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment, along with extremely costly clean-up measures. These improvements to USTs are mandated by federal law. If not accomplished by December 1998, the base will be in violation of the law and subject to receiving Notices of Violation, fines, and significant adverse publicity. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | VLSB943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 92 JUL 13 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 JUL 27 |
| (d) Date Design Complete | 92 DEC 27 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 30 |
| (b) All Other Design Costs | 23 |
| (c) Total | 53 |
| (d) Contract | 34 |
| (e) In-house | 19 |

(4) Construction Start 94 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| SOUTH DAKOTA | | |
| ELLSWORTH AFB (ACC)<br>FXBM900177<br>211-173 | ALTER AIRCRAFT MAINTENANCE DOCK | 630 |

Alter aircraft maintenance dock. (Current Mission) Aircraft maintenance activities require the capability to remove and replace heavy components on assigned aircraft. One hoist is required to operate on the tail area of aircraft, while another is required in the nose area. Structural modifications are necessary to support ceiling mounted cranes. The facility has no cranes or hoists to support maintenance and repair of large aircraft components. The facility is not structurally capable of supporting installation of needed cranes without modification. Aircraft maintenance personnel must rely on other base organizations to provide a mobile, vehicle mounted crane to support their requirements for heavy lifting. This requirement occurs at least once per week, and involves placement of a vehicle mounted crane inside the maintenance facility and in close proximity to an aircraft. The cranes are operated by individuals not accustomed to working in such confined areas where minor movements can cause costly damage to a facility or an aircraft. Since the mobile cranes are intended for other uses, they are not always readily available for "loan" to the aircraft maintenance function. When not available, aircraft maintenance schedules must be revised accordingly. The potential for costly damage to an aircraft or the interior of the maintenance dock will remain high. Maintenance delays will reduce aircraft readiness and mission execution capabilities. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER AIRCRAFT MAINTENANCE DOCK | FXBM900177 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 AUG 20 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 OCT 20 |
| (d) Date Design Complete | | 93 APR 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 35 |
| (b) All Other Design Costs | | 40 |
| (c) Total | | 75 |
| (d) Contract | | |
| (e) In-house | | 75 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| TEXAS | | |
| DYESS AFB (ACC)<br>FNWZ953001<br>872-247 | WEAPONS STORAGE AREA SECURITY | 890 |

Upgrade weapons storage area security. (Current Mission) Adequate Weapons Storage Area (WSA) security to deter or delay intrusion and meet Department of Defense (DOD) protection criteria as identified in DOD Manual 5210.41. Department of Defense guidelines for security of Weapons Storage Areas require specific fence heights, and anchoring and stabilizing systems to ensure the integrity of security devices. A "double fence" system is required which includes an outer six- foot-high animal control fence to reduce false alarms from security sensors, and an inner seven-foot-high (plus outrigger) security fence on which sensors are mounted. Inner fences must be capable of supporting installation of second generation Fence Protection System sensors scheduled for installation in the future. All WSAs also require interior and exterior all-weather access to meet a five-minute response time for any security alarm or incident. This project corrects a nuclear surety deficiency. The existing fence does not meet DOD standards for fence height and is improperly constructed to meet security requirements. The surrounding clear zone is not properly graded. Soil around the fence has eroded in some areas leaving openings beneath the fence, and has accumulated in other areas resulting in inadequate fence height. The fence is old and will not support installation of new second generation Fence Protection System sensors scheduled to be installed in May 1995 at a cost of $1.2M. This project will eliminate three DOD nuclear security/surety waivers and variances. Security for critical and sensitive munitions assets will not meet DOD requirements. Waivers will be required to continue use of the WSA. If waivers cannot be obtained, the base mission cannot be executed. Installation of second generation security sensors will be delayed until an adequate interior fence is provided. Security for munitions will be jeopardized, with possible major consequences and adverse publicity should the area be penetrated by unauthorized personnel. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DYESS AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WEAPONS STORAGE AREA SECURITY | FNWZ953001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 10 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 04 |
| (d) Date Design Complete | 93 JUL 18 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 48 |
| (b) All Other Design Costs | 16 |
| (c) Total | 64 |
| (d) Contract | 54 |
| (e) In-house | 10 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| DTR 90 VERTICAL TAUGHT WIRE SENSORS/FENCE PROTECTIONS SYSTEM-2 | 3400 | 94 | 882 |
| | 3080 | 94 | 318 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| TEXAS | | |
| KELLY AFB (MTC)<br>MBPB933003<br>217-712 | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | 731 |

Alter a C-17 depot avionics facility. (New Mission) A suitable facility is required to provide a completely organic capability for depot repair and test of C-17 avionics systems and components to maintain combat readiness. Environmentally controlled areas for test and overhaul of shop-repairable components, radar and antenna array and radomes are required. Under the C-17 concept, the depot must also establish an avionics intermediate shop which will be used to test and repair line-replaceable units as well as some software associated with avionics. Minor alterations to an existing building are needed to satisfy this requirement. Even though the existing depot avionics shops are utilized to near capacity, reductions in other workloads will make space available to accommodate the C-17 workload within existing space; however, some of that space will have to be modified to accommodate state-of-the- art technologies associated with the C-17. Deficiencies include inadequate lighting, unconditioned electrical power and inadequate noise abatement. Most of the avionics support for the C-17 will have to be contracted out at greatly increased costs. More importantly, the divided repair responsibility will result in significant delays in completion of depot repairs and return of aircraft to operational units. The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in May 1990. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide", or in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | MBPB933003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 05 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 20 |
| (d) Date Design Complete | 93 OCT 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 43 |
| (b) All Other Design Costs | 66 |
| (c) Total | 109 |
| (d) Contract | 56 |
| (e) In-house | 53 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| 13 SHOP REPLACEABLE UNIT TEST EQUIPMENT | 3010 | FY94 | 15400 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| TEXAS | | |
| REESE AFB (ATC)<br>UBNY953002<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 900 |

Upgrade or replace existing underground storage tanks. (Current Mission) This is a Level II environmental compliance project. Upgrade all underground storage tanks (USTs) regulated by Title 40 Code of Federal Regulations, part 280 to new Environmental Protection Agency (EPA) standards. The EPA has set standards requiring all USTs to have leak detection, corrosion protection, and spill and overfill prevention systems by December 1998. Further, the 31 Texas Administrative Code, Chapter 334 requires spill and overfill prevention measures be installed by December 1994. Existing USTs must be upgraded to comply with new standards, replaced with new UST systems, or replaced with aboveground tanks. This project includes USTs used to store fuel for emergency power generation which are deferred by federal regulations, but are regulated in the state of Texas as per 31 Texas Administrative Code, Chapter 334. USTs have to be leak tested annually until they are upgraded with permanent leak detection systems. Testing costs are estimated at $1,000 per UST. Installation of permanent leak detection systems will eliminate recurring testing costs. In addition, the various upgrades will also help prevent releases which could result in future AF liability and expensive cleanup costs. Command wide testing activities accomplished to date indicate a leak test failure rate of approximately 5%. USTs included in this project support transportation, POL operations, AGE operations, power production, and aircraft maintenance. Potential shutdown of mission essential facilities as leaks occur. Annual expenditure of $29K for tank inspections. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

REESE AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | UBNY953002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 24 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 OCT 24 |
| (d) | Date Design Complete | 93 SEP 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | YES |
| (b) | Where Design Was Most Recently Used - | REESE |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 50 |
| (b) | All Other Design Costs | 70 |
| (c) | Total | 120 |
| (d) | Contract | |
| (e) | In-house | 120 |
| (4) | Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| TEXAS | | |
| SHEPPARD AFB (ATC)<br>VNVP953003<br>179-511 | FIRE TRAINING FACILITY | 850 |

Construct a fire training facility. (Current Mission) This is a Level I environmental compliance project which will correct violations of existing statutes. A live fire training facility meeting all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and to prevent groundwater from becoming contaminated by residual unburned fuel. The existing site is designated as an Installation Restoration Program (IRP) site undergoing remedial investigation funded by Defense Environmental Restoration Account (DERA). Current facility is not environmentally acceptable for fire training purposes. Fire fighters will not remain proficient in aircraft crash fire fighting and rescue techniques. The safety of both firefighters and accident victims will continue to be compromised. TDY training is not feasible due to funded level of manning and mission support requirements. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY | VNVP953003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 29 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 29 |
| (d) Date Design Complete | 93 NOV 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | REESE |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 50 |
| (b) All Other Design Costs | 26 |
| (c) Total | 76 |
| (d) Contract | 57 |
| (e) In-house | 19 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| TEXAS | | |
| SHEPPARD AFB (ATC)<br>VNVP963001<br>740-884 | ADD TO AND ALTER CHILD DEVELOPMENT CENTER | 780 |

Add to and alter child development center. (Current Mission) A properly sized and functionally configured facility is required to provide supervised care and development experience for 327 dependent children ages four weeks through twelve years, including all preschool activities. Adequate child care facilities must be provided to accommodate the special requirements placed on military families, single parents and working spouses. The facility programs offered must provide professional care, operate during nonstandard hours, provide for services on an hourly, daily or part-time basis and provide early developmental care for children. The present center was constructed in 1973 to accommodate 140 children. Two additions have been constructed, in 1987 and 1990, to accommodate 44 additional children. Presently two WWII facilities are being used to supplement an additional 60 children which relieves only some of the pressure of lack of space. These two additional facilities are wood framed, contain asbestos, and have no central HVAC/environmental controls. One building has inadequate toilet facilities without privacy for the children, no indoor multi-purpose space, no kitchen facilities, and miscellaneous deficiencies such as extremely limited storage and administrative/staff capabilities. Those families turned away use off-base programs of which not all are licensed, ddo not accommodate all ages, and do not accommodate working hours of base personnel. Personnel must continue to use off base programs or place children in unlicensed babysitting situations and the morale, productivity and career satisfaction of service members will continue to be degraded. Lack of adequate space hinders the implementation of expanding the drop-in care program. Requirements do not include calculations based upon mission gains related to base realignment and closure (BRAC). A FY 94 BRAC project VNVP933021, with a scope of 5,000 SF, has been submitted and should be incorporated into this project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER | VNVP963001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 17 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 DEC 18 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | SHEPPARD |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 46 |
| (b) All Other Design Costs | 30 |
| (c) Total | 76 |
| (d) Contract | 66 |
| (e) In-house | 10 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| UTAH | | |
| HILL AFB (MTC)<br>KRSM933019<br>179-511 | FIRE TRAINING FACILITY (DBOF) | 880 |

Construct a fire training facility. (Current Mission) This is a Level I environmental compliance project which will correct violations of existing statutes. A live fire training facility meeting all environmental and safety regulations is required. FAA requires quarterly live fire training exercises to enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and to prevent groundwater from becoming contaminated by residual unburned fuel. The live fire training facility at this base does not meet the standards established for this type of facility by the Environ- mental Protection Agency (EPA). While this facility is currently used on a limited basis, the lining and other environmental control measures do not meet requirements of the new Clean Water Act. Alternative training methods have been considered, but all have proven non-productive. Off-base training is not acceptable since it would remove both the crews and fire vehicles from the base, making them unavailable for response to emergencies. Base fire crews will continue to be denied FAA required live fire training, adversely impacting their degree of readiness. Lack of training could result in injury, loss of life, or loss of an aircraft. There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | KRSM933019 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 21 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | MT HOME |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 53 |
| (b) All Other Design Costs | 60 |
| (c) Total | 113 |
| (d) Contract | 47 |
| (e) In-house | 66 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| VIRGINIA | | |
| LANGLEY AFB (ACC)<br>MUHJ943009<br>411-135 | UNDERGROUND FUEL STORAGE TANKS | 500 |

Remove/replace underground storage tanks (USTs). (Current Mission) This is a Level II environmental compliance project. Adequate fuel storage, properly designed and located, is required to satisfy base mission requirements. All petroleum dispensing and operating facilities must be provided with a means for detecting and preventing release of pollutants into the surrotnding environment. All USTs must be upgraded in accordance with federal law (40 CFR 280.21) by December 1998. This includes leak detection, corrosion protection, and spill/overflow prevention systems to protect human health and the environment. Underground storage tanks at Langley AFB do not meet federal requirements for corrosion protection, secondary containment, and overfill/spill protection. The condition of these tanks varies with a majority of the tanks at or exceeding their design life. These deficiencies must be corrected to prevent violation of federal UST regulations. If underground storage tanks require replacement, Air Force policy is to replace them with aboveground tanks or relocate them into underground vaults, whenever possible. Undetected UST releases can result in contamination of soil and ground water supplies, resulting in a threat to human health and the environment along with extremely costly cleanup measures. These improvements to USTs are mandated by federal law. If not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines and significant adverse publicity. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS | MUHJ943009 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 NOV 01 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 AUG 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 5 |
| (b) | All Other Design Costs | |
| (c) | Total | 5 |
| (d) | Contract | |
| (e) | In-house | 5 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| WYOMING | | |
| F E WARREN AFB (ACC)<br>GHLN931001<br>851-147 | WEAPONS STORAGE AREA SECURITY | 640 |

Weapons storage area security improvements. (Current Mission) Adequate Weapons Storage Area (WSA) security to deter or delay intrusion and meet Department of Defense (DOD) protection criteria as identified in DOD Manual 5210.41. Department of Defense guidelines for security of Weapons Storage Areas require specific fence heights and anchoring and stabilizing systems to enstre the integrity of security devices. A "double fence" system is required which includes an outer six- foot-high animal control fence to reduce false alarms from security sensors. An inner seven-foot-high (plus outrigger) security fence on which sensors are mounted is also required. Inner fences must be capable of supporting installation of second generation Fence Protection System sensors scheduled for installation in the future. All WSAs also require interior and exterior all-weather vehicle access to permit a five-minute response time for any security alarm or incident. A weather shelter is required for personnel entrapment areas to protect individuals awaiting entry to or exit from the secure area. This project corrects a nuclear surety deficiency. The existing interior security fence does not meet DOD standards for fence height. To compensate for fence height deficiencies, security forces must physically inspect the entire perimeter every four hours instead of the normal once per shift. During the winter or wet weather, these inspections are conducted on foot, as the perimeter patrol roads are impassable by vehicle. During these "foot patrols", security forces are removed from optimum locations for responding to security alarms, and are unable to respond within the required five minutes. The interior fence is old, and will also not support installation of new second generation Fence Protection System sensors scheduled to be installed in FY 94 at a cost of $1.2M. The WSA has no shelter to protect personnel from sub-zero temperatures, blowing snow, and other inclement weather as they enter and leave the area. These individuals are fully exposed to the weather while in the security entrapment area awaiting clearance to proceed. This causes extreme hardships for the 600 individuals entering and exiting the area each day. This project will eliminate one DOD nuclear security/surety waiver. Security for critical and sensitive munitions will not meet DOD requirements. A waiver will be required to continue use of the WSA. If waivers cannot be obtained, the base mission cannot be executed. Installation of second generation security sensors will be delayed until an adequate interior fence is provided. Security for munitions will be jeopardized, with possible major

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| VARIOUS LOCATIONS - WITHIN THE UNITED STATES | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| PROJECTS $1 MILLION AND UNDER | | |

| STATE AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|

consequences and adverse publicity should the area be penetrated by unauthorized personnel. Personnel will have to endure severe weather hardships as they await and undergo security checks prior to entering or exiting this secure area. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

F E WARREN AIR FORCE BASE, WYOMING

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WEAPONS STORAGE AREA SECURITY | GHLN931001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 MAY 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 24 |
| (b) All Other Design Costs | 56 |
| (c) Total | 80 |
| (d) Contract | |
| (e) In-house | 80 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| DTR 90 VERTICAL TAUT WIRE SENSORS FENCE PROTECTION SYSTEM-2 | | | 1200 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| COUNTRY AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| INVALID STATE ABREVIATION | | |
| ANTIGUA AS (SPC)<br>ALMY953007<br>811-145 | SLFI-UPGRADE BACKUP GENERATOR | 1000 |

Provide additional backup power for the Consolidated Instrumentation Facility (CIF). (Current Mission) This is a Space Launch Facilities Infrastructure (SLFI) requirement. Backup power is required for the tracking radar to support launch operations. In the event of power interruptions, a reliable source of backup power is required for the CIF to sustain critical spacelift launch support. The Antigua site provides tracking and telemetry spacelift launch support for the Global Positioning System, Defense Satellite Communications System, Space Shuttle, classified missions, and space and ballistic missile tests. The existing generators provide power for critical loads at the antenna, but there is no backup generator to power critical electronic and support equipment in the CIF. The prime power plant is 33 years old, and will continue to suffer from unavoidable power outages. Power outages can result in launch delays or, during a launch, tracking and telemetry support can be lost. There were three power outages last year and numerous power fluctuations. Had these outages or fluctuations occurred during a launch the result would have been a delay of the launch or loss of contact with the launch vehicle during the launch. Launch delays can impact the mission through failure to meet specific in-orbit timelines and are costly in terms of overtime for the contractor. Telemetry and tracking are critical to attaining correct orbit; failure to do so can result in loss of the launch vehicle and its payload. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2, "Standard Facility Requirements". High cost at this site is due to its location on a remote island that requires shipping of materials and equipment by boat, and because construction contractors must provide temporary housing for workers.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANTIGUA AIR STATION, ANTIGUA, WEST INDIES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SLFI-UPGRADE BACKUP GENERATOR | ALMY953007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 DEC 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 24 |
| (d) Date Design Complete | 93 JUL 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 60 |
| (b) All Other Design Costs | 30 |
| (c) Total | 90 |
| (d) Contract | 75 |
| (e) In-house | 15 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $1 MILLION AND UNDER | |

| COUNTRY AND LOCATION | PROJECT TITLE | COST ($000) |
|---|---|---|
| CLASSIFIED LOCATION | | |
| DIEGO GARCIA AB (SPC)<br>FGDA943002<br>219-946 | SATELLITE TRACKING STORAGE FACILITY | 560 |

Construct a satellite tracking storage facility. (Current Mission) An air conditioned storage and work facility is required to protect expensive technical and utility equipment spares from inclement weather and to provide work space for facilities personnel. When the Diego Garcia Automated Remote Tracking System (ARTS) facility was first installed, little or no administrative and storage space was provided for Air Force and contractor personnel. Although a pre-engineered office facility was added, no office space, maintenance workspace, or storage space was included. Facilities maintenance personnel are required to work outdoors which is ineffective due to the corrosive environment and frequent rain (over 100 inches/year). Most supplies are surface shipped to Diego Garcia and, because of its remote location in the central Indian Ocean and lead time of 6 months to a year, it is necessary for the installation to increase stock levels on many items. Recent closure of overseas support facilities such as Clark AFB has further degraded logistical support. As a result some materials are stored outside and others are stacked up inside inadequate space. The original technical supply area was also undersized. Spare magnetic tapes, electronics hardware, and other mission-related equipment is stored inefficiently and unsafely because of the congested conditions. Utility equipment will continue to be stored in hot, humid temporary storage facilities and will corrode in the aggressive salt atmosphere. The facilities manager will have inadequate space to store drawings, manuals, etc., and be unable to conduct repairs of utility equipment in a proper working environment. Technical equipment will continue to be stored in overcrowded and unsafe conditions. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DIEGO GARCIA AIR BASE, INDIAN OCEAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SATELLITE TRACKING STORAGE FACILITY | FGDA943002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 92 NOV 09 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 92 DEC 30 |
| | (d) Date Design Complete | 93 SEP 01 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | NO |
| | (b) Where Design Was Most Recently Used - | N/A |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 34 |
| | (b) All Other Design Costs | 16 |
| | (c) Total | 50 |
| | (d) Contract | 42 |
| | (e) In-house | 8 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

# DEFENSE BUSINESS OPERATIONS FUND (DBOF)

THE FOLLOWING IS A SPECIAL SECTION ON DBOF PROJECTS THAT ARE INCLUDED IN THE AIR FORCE FY 1994 MILITARY CONSTRUCTION REQUEST. THESE PROJECTS ARE ALSO INCLUDED IN THE DD FORMS 1390 AND 1391 THAT ARE IN THE FRONT PART OF THIS VOLUME.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
DEFENSE BUSINESS OPERATIONS FUND


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| ARKANSAS | | | | | |
| LITTLE ROCK AFB | | | | | |
| | ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | 1,200 | 1,200 | 1,200 | 661A |
| | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | 2,250 | 2,250 | 2,250 | 662 |
| CALIFORNIA | | | | | |
| MCCLELLAN AFB | | | | | |
| | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | 1,900 | 1,900 | 1,900 | 665 |
| TRAVIS AFB | | | | | |
| | UNDERGROUND FUEL STORAGE TANKS (DBOF) | 2,840 | 2,840 | 2,840 | 666A |
| DELAWARE | | | | | |
| DOVER AFB | | | | | |
| | DORMITORY (DBOF) | 3,200 | 3,200 | 3,200 | 667 |
| | ADD TO AND ALTER DINING FACILITY (DBOF) | 2,500 | 2,500 | 2,500 | 670 |
| GEORGIA | | | | | |
| ROBINS AFB | | | | | |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 4,300 | 4,300 | 4,300 | 673 |
| ILLINOIS | | | | | |
| SCOTT AFB | | | | | |
| | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | 2,450 | 2,450 | 2,450 | 676 |
| MARYLAND | | | | | |
| ANDREWS AFB | | | | | |
| | AIR FREIGHT TERMINAL (DBOF) | 4,400 | 4,400 | 4,400 | 678A |
| | FIRE TRAINING FACILITY (DBOF) | 1,000 | 1,000 | 1,000 | |
| | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | 9,940 | 9,940 | 9,940 | 682 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
DEFENSE BUSINESS OPERATIONS FUND


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| MONTANA | | | | | |
| MALMSTROM AFB | | | | | |
| | BASE ENGINEERING COMPLEX (DBOF) | 6,200 | 6,200 | 6,200 | 685 |
| OKLAHOMA | | | | | |
| ALTUS AFB | | | | | |
| | C-17 FIRE STATION (DBOF) | 780 | 780 | 780 | 688 |
| | C-17 ADD TO FLIGHT SIMULATOR (DBOF) | 2,850 | 2,850 | 2,850 | 689A |
| | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | 3,300 | 3,300 | 3,300 | 689D |
| TINKER AFB | | | | | |
| | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | 5,400 | 5,400 | 5,400 | 690 |
| SOUTH CAROLINA | | | | | |
| CHARLESTON AFB | | | | | |
| | FIRE TRAINING FACILITY (DBOF) | 1,100 | 1,100 | 1,100 | 693 |
| TEXAS | | | | | |
| KELLY AFB | | | | | |
| | C-17 ADD/ALTER NONDESTRUCTUVE INSPECTION FACILITY (DBOF) | 4,900 | 4,900 | 4,900 | 696 |
| | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | 731 | 731 | 731 | 699 |
| | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | 7,800 | 7,800 | 7,800 | 702 |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 2,000 | 2,000 | 2,000 | 705 |
| UTAH | | | | | |
| HILL AFB | | | | | |
| | FIRE TRAINING FACILITY (DBOF) | 880 | 880 | 880 | 708 |
| | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | 5,100 | 5,100 | 5,100 | 711 |

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1994
(DOLLARS IN THOUSANDS)
DEFENSE BUSINESS OPERATIONS FUND


| STATE/COUNTRY INSTALLATION | PROJECT | PROJECT AUTH | AUTH FOR APPROP | APPROP AMOUNT | PAGE |
|---|---|---|---|---|---|
| WASHINGTON | | | | | |
| MCCHORD AFB | | | | | |
| | ADD TO AND ALTER DORMITORIES (DBOF) | 6,500 | 6,500 | 6,500 | 714 |
| | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | 4,400 | 4,400 | 4,400 | 717 |
| | FY 94 TOTAL: | 87,921 | 87,921 | 87,921 | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 211-157 | NKAK903001 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | SF | 9,600 | | 883 |
| ADDITION | SF | 8,000 | 94 | ( 752) |
| ALTERATION | SF | 1,600 | 82 | ( 131) |
| SUPPORTING FACILITIES | | | | 150 |
| UTILITIES | LS | | | ( 75) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | SY | 700 | 36 | ( 25) |
| SUBTOTAL | | | | 1,033 |
| CONTINGENCY (10%) | | | | 103 |
| TOTAL CONTRACT COST | | | | 1,136 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 62 |
| TOTAL REQUEST | | | | 1,198 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Reinforced concrete foundations and floor, structural steel frames, masonry walls, roof and monorails with hoists. Area includes shop space, maintenance management space, utilities and other necessary support.

11. REQUIREMENT: 41,564 SF ADEQUATE: 31,964 SF SUBSTANDARD: 1,600 SF
PROJECT: Add to and alter aircraft engine inspection and repair shop. (Current Mission)
REQUIREMENT: An expanded facility is required to maintain, inspect and repair aircraft engines and provide storage for spare engines, tools and support equipment. This facility supports maintenance and inspection operations for 401 C-130 aircraft engines.
CURRENT SITUATION: The engine repair and build-up crew areas are not large enough to support the number of engines required for effective productivity. Space is necessary for maintenance on four engines while existing facility supports only three engine maintenance spaces. The gas turbine compressor section is overcrowded with special tools, test equipment, as well as with repairable, serviceable and in-work units. The quick engine change (QEC) kit section has been divided into separate sections due to critical space problems, creating span of control problems.
IMPACT IF NOT PROVIDED: Maintenance operations will continue to be performed in an overcrowded facility increasing the risk of accidents.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD/ALTER ENGINE INSPECTION AND REPAIR SHOP (DBOF) | NKAK903001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 APR 21 |
| (b) Percent Complete as of Jan 93 | 40% |
| (c) Date 35% Designed | 92 AUG 28 |
| (d) Date Design Complete | 93 MAY 25 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 72 |
| (b) All Other Design Costs | 42 |
| (c) Total | 114 |
| (d) Contract | |
| (e) In-house | 114 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 740-884 | NKAK923003 | 2,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | SF | 23,200 | | 1,588 |
| ADDITION | SF | 8,300 | 89 | ( 739) |
| ALTERATION | SF | 14,900 | 57 | ( 849) |
| SUPPORTING FACILITIES | | | | 355 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 105) |
| SUBTOTAL | | | | 1,943 |
| CONTINGENCY (10%) | | | | 194 |
| TOTAL CONTRACT COST | | | | 2,137 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 128 |
| TOTAL REQUEST | | | | 2,265 |
| TOTAL REQUEST (ROUNDED) | | | | 2,250 |

10. Description of Proposed Construction: Concrete footings, foundations, and floor slab, masonry walls, brick veneer and hip roof. Includes space for reception area, administrative offices, classrooms, kitchen, mechanical room, fire protection, utilities and other necessary support. Air Conditioning: 60 Tons.

11. REQUIREMENT: 25,875 SF ADEQUATE: 0 SUBSTANDARD: 14,900 SF
PROJECT: Add to and alter child development center. (Current Mission)
REQUIREMENT: A facility is required to provide adequate space and environment for child development requirements and an atmosphere conducive to the needs of 345 dependent children of military and civilian personnel assigned to the base.
CURRENT SITUATION: The existing facility provides only two thirds of the space needed to adequately support child care needs. Inefficiencies include lack of classroom space, administration, food service area and recreational support area. Changes in the makeup of the military and civilian population have increased the need for full-day child care development services. Single parents, dual working couples, and working spouses have changed the focus from a recreational support activity to a mission support program. Because more children stay at the center ten hours a day, five days a week, improved developmental care facilities must provide more adequate indoor and outdoor play space, learning centers, sleeping facilities and kitchen/food service areas. Off-base child care centers are available; however, they are substandard in that they are not certified by the State of Arkansas and do not meet minimum Air Force and Department of Defense standards for child care. These facilities provide little more than custodial care. They experience an extremely high turn-over rate in workers because they pay minimum wages. Workers are not

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | NKAK923003 |

screened for health problems and criminal records. Most facilities do not provide care for children under two years old. The Little Rock Child Development Center is the only facility in the State of Arkansas accredited by the National Association for the Education of Young Children. Some home care is available on base but not nearly enough to meet base child care demands. The waiting list for full-time day care is for 83 children; however, many families do not bother to sign-up because the list is too long.

IMPACT IF NOT PROVIDED: Lack of quality child care contributes to employee absenteeism, low morale and has a negative impact in the military and civilian workforces. Expanded program requirements and increased demand for child care cannot be provided due to lack of space.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, addition/alteration and new construction). This analysis indicates the addition/alteration alternative is the most cost effective. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER CHILD DEVELOPMENT CENTER (DBOF) | NKAK923003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 01 |
| (b) | Percent Complete as of Jan 93 | 50% |
| (c) | Date 35% Designed | 92 JUL 27 |
| (d) | Date Design Complete | 93 JUL 14 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 135 |
| (b) | All Other Design Costs | 90 |
| (c) | Total | 225 |
| (d) | Contract | 183 |
| (e) | In-house | 42 |
| (4) | Construction Start | 94 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCLELLAN AIR FORCE BASE, CALIFORNIA | FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 880-232 | PRJY881011 | 1,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | SF | 196,000 | 7 | 1,372 |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 1,612 |
| CONTINGENCY (10%) | | | | 161 |
| TOTAL CONTRACT COST | | | | 1,773 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 106 |
| TOTAL REQUEST | | | | 1,879 |
| TOTAL REQUEST (ROUNDED) | | | | 1,900 |

10. Description of Proposed Construction: Install aqueous film forming foam (AFFF) preaction sprinkler systems and wet pipe sprinkler systems in fifteen buildings, including piping, sprinkler heads, nozzles, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Install fire protection systems in fifteen buildings. (Current Mission)

REQUIREMENT: Automatic AFFF preaction systems are required to support critical base facilities and their contents, including multi-million dollar aircraft and equipment. These systems are needed to minimize hazard to life and property by quickly suppressing a fuel fire before injury or widespread damage can occur. This level of fire protection is consistent with standards developed by the National Fire Protection Association.

CURRENT SITUATION: There are no fire protection systems in fifteen docks used to accomplish depot maintenance of first line aircraft. A fire in any of these facilities could endanger the building, its contents and occupants. All of these buildings are needed to accomplish depot maintenance workloads assigned to the Sacramento Air Logistics Center.

IMPACT IF NOT PROVIDED: Loss of life, first line aircraft and equipment will remain a possibility. The total value of aircraft at risk could be as high as $650 million.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCLELLAN AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE PROTECTION AIRCRAFT FACILITIES (DBOF) | PRJY881011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 19 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 24 |
| (d) Date Design Complete | 93 NOV 22 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 100 |
| (b) All Other Design Costs | 122 |
| (c) Total | 222 |
| (d) Contract | 139 |
| (e) In-house | 83 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | UNDERGROUND FUEL STORAGE TANKS (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 411-135 | XDAT943075 | 2,840 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | LS | | | 2,400 |
| UPGRADE UNDERGROUND STORAGE TANKS | EA | 7 | 40,000 | ( 280) |
| CONSTRUCT UNDERGROUND STORAGE TANKS | EA | 10 | 107,000 | (1,070) |
| CONSTRUCT ABOVEGROUND STORAGE TANKS | EA | 14 | 75,000 | (1,050) |
| SUBTOTAL | | | | 2,400 |
| CONTINGENCY (10%) | | | | 240 |
| TOTAL CONTRACT COST | | | | 2,640 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 158 |
| TOTAL REQUEST | | | | 2,798 |
| TOTAL REQUEST (ROUNDED) | | | | 2,840 |

10. Description of Proposed Construction: Upgrade 7 tanks and their pressurized lines with leak detection. Replace 10 existing tanks with new double-walled underground tanks, leak detectors and other necessary support. In addition, replace another 14 underground tanks with aboveground tanks.

11. REQUIREMENT: As required.

PROJECT: Upgrade underground fuel storage tanks. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project to upgrade underground storage tanks (USTs) regulated by the California State Water Resources Control Board (CSWRCB). This board has set standards that require all regulated USTs to have leak detection, corrosion protection, and spill/overflow prevention systems. If USTs are to be replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible.

CURRENT SITUATION: The majority of the USTs at Travis have exceeded their design lives and are in need of replacement. Approximately 97% of the regulated USTs are also out of compliance with current (1988) state regulations. All of the regulated USTs require annual integrity (tightness) testing, daily fluid level monitoring and monthly inventory reconciliation and control, since they lack the proper continuous monitoring appliances and controls. If these tasks are not performed, the exposure to environmental liability will increase. These liabilities can be eliminated through the installation of the new USTs or aboveground storage tanks (ASTs) and associated continuous monitoring/alarm systems.

IMPACT IF NOT PROVIDED: Failure to bring the USTs into environmental compliance will result in Travis AFB receiving a Notice of Violation (NOV) from the regulators. This will ultimately result in fines or litigation

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | XDAT943075 |

and unfavorable publicity for the Air Force. All tanks must meet regulations or be permanently closed. The absence of sufficient fuel storage due to mandatory tank closure would seriously jeopardize the base's mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that satisfies regulatory requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UNDERGROUND FUEL STORAGE TANKS (DBOF) | XDAT943075 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 31 |
| (d) Date Design Complete | 94 JAN 05 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 65 |
| (b) All Other Design Costs | |
| (c) Total | 65 |
| (d) Contract | 65 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOVER AIR FORCE BASE, DELAWARE | DORMITORY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | FJXT943005 | 3,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DORMITORY (DBOF) | SF | 25,000 | 90 | 2,250 |
| SUPPORTING FACILITIES | | | | 630 |
| UTILITIES | LS | | | ( 165) |
| PAVEMENTS | LS | | | ( 165) |
| SITE IMPROVEMENTS | LS | | | ( 115) |
| DEMOLITION | SF | 30,900 | 6 | ( 185) |
| SUBTOTAL | | | | 2,880 |
| CONTINGENCY (5%) | | | | 144 |
| TOTAL CONTRACT COST | | | | 3,024 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 181 |
| TOTAL REQUEST | | | | 3,205 |
| TOTAL REQUEST (ROUNDED) | | | | 3,200 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roof. Includes room-bath-room modules, laundries, storage and lounge areas and all supporting facilities. Air Conditioning: 100 Tons. Grade Mix: 175 E1-E4.

11. REQUIREMENT: 1,787 PN ADEQUATE: 901 PN SUBSTANDARD: 1,624 PN

PROJECT: Construct a dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: There are currently not enough adequate dormitories to meet the billeting requirements of unaccompanied enlisted personnel at this base. Substandard facilities to be replaced are semi-permanent, modular facilities which do not provide semi-private baths, adequate control of heating and air conditioning, sufficient noise attenuation or necessary amenities to adequately house enlisted personnel. This project is the fourth phase of a six phase program to provide adequate dormitories at this base. Current occupancy rate of dorms at Dover is 98 percent. Three substandard facilities which house 106 personnel will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| DOVER AIR FORCE BASE, DELAWARE | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| DORMITORY (DBOF) | | FJXT943005 |

life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation, and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DORMITORY (DBOF) | FJXT943005 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 92 AUG 12 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 15 |
| (d) Date Design Complete | 93 AUG 23 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 192 |
| (b) All Other Design Costs | 208 |
| (c) Total | 400 |
| (d) Contract | 78 |
| (e) In-house | 322 |

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOVER AIR FORCE BASE, DELAWARE | ADD TO AND ALTER DINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 722-351 | FJXT933000 | 2,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | SF | 15,950 | | 1,738 |
| ADDITION | SF | 1,150 | 160 | ( 184) |
| ALTERATION | SF | 14,800 | 105 | (1,554) |
| SUPPORTING FACILITIES | | | | 420 |
| UTILITIES | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| PAVEMENTS | LS | | | ( 110) |
| ASBESTOS REMOVAL | LS | | | ( 35) |
| SUBTOTAL | | | | 2,158 |
| CONTINGENCY (10%) | | | | 216 |
| TOTAL CONTRACT COST | | | | 2,374 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 142 |
| TOTAL REQUEST | | | | 2,516 |
| TOTAL REQUEST (ROUNDED) | | | | 2,500 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab and roof panels. All electrical, mechanical, and structural work necessary to reconfigure existing kitchen, serving area and dining area.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 17,800 SF ADEQUATE: 1,850 SF SUBSTANDARD: 14,800 SF
PROJECT: Add to and alter dining facility. (Current Mission)
REQUIREMENT: Adequate space is required for food preparation, serving line, dishwashing equipment, dining area, and storage of perishable and non-perishable food.
CURRENT SITUATION: The dining hall activities are presently being conducted in a facility that is too small and not properly configured to support assigned and transient personnel. Inefficiencies include 17-year-old outdated serving line equipment, lack of adequate sanitation, and inadequatly sized or configured dining and kitchen area which does not permit optimal use of existing space. The existing dining facility was constructed in 1975. Subsequent to this construction, sanitation standards have changed in kitchen washing and cleaning operations which cannot be met due to the design and equipment layout. Insufficient storage space for pots and pans has caused medical write-ups for sanitation discrepancies. Additional space is required for patron seating. Lack of adequate seating space and food serving line causes unnecessary delays for personnel who are on meal breaks from their jobs.
IMPACT IF NOT PROVIDED: Dining hall operations will continue to be performed in a substandard and overcrowded facility. Morale of our personnel will continue to be adversely impacted if they are forced to take meals in such an inadequate and unattractive facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | FJXT933000 |

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, addition/alteration and new construction). This analysis indicates the addition/alteration alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING FACILITY (DBOF) | FJXT933000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 93 JAN 29 |
| (b) Percent Complete as of Jan 93 | 2% |
| (c) Date 35% Designed | 93 APR 26 |
| (d) Date Design Complete | 93 NOV 12 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 150 |
| (b) All Other Design Costs | 100 |
| (c) Total | 250 |
| (d) Contract | 170 |
| (e) In-house | 80 |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 721-312 | UHHZ933001 | 4,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 57,200 | | 3,176 |
| ADDITION | SF | 6,700 | 67 | ( 449) |
| ALTERATION | SF | 50,500 | 54 | (2,727) |
| SUPPORTING FACILITIES | | | | 530 |
| UTILITIES | LS | | | ( 290) |
| PAVEMENTS | LS | | | ( 85) |
| SITE IMPROVEMENTS | LS | | | ( 110) |
| COMMUNICATIONS SUPPORT | LS | | | ( 45) |
| SUBTOTAL | | | | 3,706 |
| CONTINGENCY (10%) | | | | 371 |
| TOTAL CONTRACT COST | | | | 4,077 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 245 |
| TOTAL REQUEST | | | | 4,322 |
| TOTAL REQUEST (ROUNDED) | | | | 4,300 |

10. Description of Proposed Construction: Alter interior partitioning to provide room-bath-room modules, exterior entrances and balconies; extend roofline and upgrade exterior; install cable TV system; upgrade laundry rooms, HVAC and utility systems, provide insulation and necessary support.

11. REQUIREMENT: 1,526 PN ADEQUATE: 960 PN SUBSTANDARD: 272 PN

PROJECT: Add to and alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs which these people must perform.

CURRENT SITUATION: The buildings were constructed in 1960 when standards of construction for bachelor quarters were considerably lower. Common latrines, inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems, and lack of privacy are major deficiencies of these facilities. This is the third phase of a three phase effort to provide adequate quarters for enlisted personnel at this base.

IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of enlisted personnel assigned to this base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". While it is recognized that the initial cost of renovating these facilities exceeds 70 percent of the replacement cost, a life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| ROBINS AIR FORCE BASE, GEORGIA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ADD TO AND ALTER DORMITORIES (DBOF) | | UHHZ933001 |

(status quo, renovation, new construction, and leasing). This analysis indicates the renovation alternative is the most economical over the life of the facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | UHHZ933001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 AUG 15 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 OCT 25 |
| (d) Date Design Complete | | 93 SEP 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | YES |
| (b) Where Design Was Most Recently Used - | | ROBINS |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 155 |
| (b) All Other Design Costs | | 110 |
| (c) Total | | 265 |
| (d) Contract | | 178 |
| (e) In-house | | 87 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SCOTT AIR FORCE BASE, ILLINOIS | MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 422-253 | VDYD923004 | 2,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | LS | | | 1,538 |
| MULTICUBICLE MAGAZINE STORAGE | SF | 4,850 | 150 | ( 728) |
| MUNITIONS HOLDING AREA | SF | 400 | 150 | ( 60) |
| MUNITIONS MAINT ADMINISTRATION | SF | 1,000 | 100 | ( 100) |
| LAND, FEE PURCHASE | AC | 22 | 19,090 | ( 420) |
| LAND, EASEMENT | AC | 230 | 1,000 | ( 230) |
| SUPPORTING FACILITIES | | | | 480 |
| UTILITIES | LS | | | ( 380) |
| PAVEMENTS | LS | | | ( 100) |
| SUBTOTAL | | | | 2,018 |
| CONTINGENCY (5%) | | | | 101 |
| TOTAL CONTRACT COST | | | | 2,119 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 127 |
| TOTAL REQUEST | | | | 2,246 |
| TOTAL REQUEST (ROUNDED) | | | | 2,450 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Area includes 14 munitions storage bays, fire sprinkler system and a munitions inspection and maintenance facility. Also included are roads, parking fencing, security lighting and alarms and necessary support. Land purchase includes 22 acres and easements include 230 acres.

11. REQUIREMENT: 6,250 SF ADEQUATE: 0 SUBSTANDARD: 410 SF

PROJECT: Construct a munitions storage facility and land acquisition. (Current Mission)

REQUIREMENT: Adequate munitions storage and inspection area is required to support training, operational and mobility requirements. Storage magazines must be sized to accommodate the 463L aircraft pallet to meet mobility requirements. Space must be provided to support the security police air base ground defense unit, the explosives ordnance disposal team, HQ AMC combat controllers and mobility missions and training needs of various base organizations. Location should conform to quantity distance criteria for minimum blast and fragmentation distances from inhabited buildings and public roadways. Land purchase consisting of 22 acres is required for construction of munitions storage, munitions maintenance space, and parking area. Easements consisting of 230 acres is required to provide the required buffer zone specified in quantity distance criteria for munitions storage facilities.

CURRENT SITUATION: The existing munitions storage/training facility is too small, providing less than ten percent of space required to support base requirements. Lack of space requires munitions to be stored at Little Rock AFB and an Army Depot 50 miles away. During recent DESERT STORM Operations, the 375 CSG Air Base Ground Defense Unit had to deploy without their munitions because munitions were stored at Little Rock. The

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | VDYD923004 |

existing location does not meet quantity distance criteria for minimum blast and fragmentation distances to inhabited buildings (1,250 feet; nearest building is 250 feet) and public traffic routes (750 feet; nearest road is 100 feet). There is no available space on base on which to construct this facility. Therefore, land must be purchased as part of this project.

IMPACT IF NOT PROVIDED: Mission requirements for training, mobility and operations will be severely impacted by depending on other installations, distant from the base, for munitions storage.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MUNITIONS STORAGE FACILITY/ LAND ACQUISITION (DBOF) | VDYD923004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 30 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 93 AUG 16 |
| (d) Date Design Complete | 93 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 123 |
| (b) All Other Design Costs | |
| (c) Total | 123 |
| (d) Contract | 123 |
| (e) In-house | |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | AIR FREIGHT TERMINAL (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 141-782 | AJXF923002 | 4,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIR FREIGHT TERMINAL (DBOF) | LS | | | 3,286 |
| AIR FREIGHT TERMINAL | SF | 33,800 | 83 | (2,805) |
| ADMINISTRATIVE SPACE | SF | 4,800 | 92 | ( 442) |
| AIR FREIGHT PAVED STORAGE | SY | 1,700 | 23 | ( 39) |
| SUPPORTING FACILITIES | | | | 675 |
| UTILITIES | LS | | | ( 290) |
| PAVEMENTS | LS | | | ( 290) |
| SITE IMPROVEMENTS | LS | | | ( 95) |
| SUBTOTAL | | | | 3,961 |
| CONTINGENCY (5%) | | | | 198 |
| TOTAL CONTRACT COST | | | | 4,159 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 250 |
| TOTAL REQUEST | | | | 4,409 |
| TOTAL REQUEST (ROUNDED) | | | | 4,400 |

10. Description of Proposed Construction: Reinforced concrete footings, foundation and floor slab, structural steel frame, insulated walls and roof, fire protection system, and utilities. Area includes space for covered pallet-train buildup, packing and crating, administration and necessary support.

11. REQUIREMENT: 38,600 SF ADEQUATE: 0 SUBSTANDARD: 18,700 SF
PROJECT: Construct an air freight terminal. (Current Mission)
REQUIREMENT: Adequate facilities for conveyorable and non-conveyorable cargo, pallet buildup and netting, aircraft pallet storage, special cargo processing and storage, packing and crating and freight management. Facility will be configured to accommodate modern mechanized handling equipment.
CURRENT SITUATION: Air freight operations are currently accomplished in an aircraft maintenance hangar which provides only 50 percent of the required space. Inefficiencies include lack of off-load docks, packing and crating area, outdated, inefficient material handling equipment and inadequate security for sensitive cargo. Cargo is processed to support State Department, embassy flights, foreign governments and special high visibility flights. Much of this cargo requires a secure storage area which can only be achieved by posting security police to guard the cargo until it can be processed for shipping. Aircraft pallet storage located outside offers no protection from the elements. When vacated, the space (18,700 SF) will be converted back to hangar space and thereby reduce the 64,000 SF hangar space deficiency at Andrews. Remaining hangar space deficiency will be satisfied in future MILCON program.
IMPACT IF NOT PROVIDED: Air freight operations will continue to be performed in a substandard facility which results in reduced productivity

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIR FREIGHT TERMINAL (DBOF) | AJXF923002 |

and low worker morale.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, contracting out services, renovation and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIR FREIGHT TERMINAL (DBOF) | AJXF923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 17 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 29 |
| (d) Date Design Complete | 93 SEP 27 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 225 |
| (b) All Other Design Costs | 138 |
| (c) Total | 363 |
| (d) Contract | 326 |
| (e) In-house | 37 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | FIRE TRAINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 179-511 | AJXF953020 | 1,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE TRAINING FACILITY (DBOF) | EA | 1 | 740,000 | 740 |
| SUPPORTING FACILITIES | | | | 155 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | SY | 35 | 1,429 | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 45) |
| SUBTOTAL | | | | 895 |
| CONTINGENCY (5%) | | | | 45 |
| TOTAL CONTRACT COST | | | | 940 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 56 |
| TOTAL REQUEST | | | | 996 |
| TOTAL REQUEST (ROUNDED) | | | | 1,000 |

10. Description of Proposed Construction: Live fire training facility with large frame aircraft mock-up, polyethylene liner system, JP-4 fuel pump and piping system, commercial power hook-up, gravity oil/water separator, access road, effluent holding pond and all necessary support.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS

PROJECT: Construct fire training facility. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. A live fire training facility is required to meet all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and contaminating the groundwater.

CURRENT SITUATION: The existing live fire training facility violated EPA pollution standards and was closed 30 April 1990. It is inadequate for training as defined by Air Force regulation. The current aircraft mock-up is smaller than the required size and is not accessible for multi-directional approaches creating an artificial environment which limits the quality of training. The existing facility does not have high-density polyethylene flexible membrane liners and nets, a leak detection system, and spill containment capability. There are no environmentally approved live fire training facilities in the local area.

IMPACT IF NOT PROVIDED: The existing facility is closed because of previous violations of environmental requirements. Required live fire

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | AJXF953020 |

training for the assigned fire fighters is not available. Without the stress and realism that come only with live fires, the fire fighters lose proficiency in combating fires. The potential for loss of aircraft and life is increased.

ADDITIONAL: There are no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PIRE TRAINING PACILITY (DBOP) | AJXF953020 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 OCT 10 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 OCT 31 |
| (d) Date Design Complete | 93 OCT 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | SCOTT |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 60 |
| (b) All Other Design Costs | 20 |
| (c) Total | 80 |
| (d) Contract | 60 |
| (e) In-house | 20 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 9.12.12S | 610-000 | AJXF943010 | 9,940 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE COMPOSITE ADMINISTRATION | | | | |
| FACILITY (DBOF) | SF | 347,500 | 7 | 2,433 |
| SUPPORTING FACILITIES | | | | 6,050 |
| HVAC | LS | | | (3,600) |
| DEMOLITION | SF | 215,000 | 5 | (1,075) |
| COMMUNICATIONS | LS | | | ( 875) |
| SYSTEMS FURNITURE | LS | | | ( 500) |
| SUBTOTAL | | | | 8,483 |
| CONTINGENCY (10%) | | | | 848 |
| TOTAL CONTRACT COST | | | | 9,331 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 607 |
| TOTAL REQUEST | | | | 9,938 |
| TOTAL REQUEST (ROUNDED) | | | | 9,940 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (650) |

10. Description of Proposed Construction: Structural, mechanical and electrical upgrade required to accommodate new occupants.

11. REQUIREMENT: 672,931 SF ADEQUATE: 341,944 SF
SUBSTANDARD: 190,087 SF

PROJECT: Upgrade composite administration building and inadequate utility systems for new occupancy following relocation/integration of Air Force Systems Command into new command. (Current Mission)

REQUIREMENT: Improve existing facility to support complete change in occupancy. New occupants will move into the facility from substandard facilities on Andrews and from other installations. Demolition of 10 substandard facilities totalling 65 KSF and a Bolling AFB 119.8 KSF facility is included in this project. An additional 7 facilities totalling 31 KSF will be temporarily reused to relieve a space shortage in the Air National Guard Bureau (ANGB) HQ and demolished during FY95 MILCON construction of a new ANGB facility. Total space reductions achieved through this project are demolition of 215 KSF of substandard facilities. This project supports facility consolidation and reduction initiatives. This facility will provide a centralized customer service center for base civilian and military personnel, finance, pass and identification, legal, claim services, transportation management office and scheduled airlines ticket office. It will also become the new headquarters for HQ/AFOSI.

CURRENT SITUATION: Combining Air Force Systems Command and Air Force Logistics Command into Air Force Materiel Command at Wright-Patterson AFB leaves bldg 1535 at Andrews AFB available for complete change of occupancy. Administrative occupants from Andrews and from the National Capital Region (NCR) will move into existing offices. HQ/AFOSI's current facility suffers from severe termite damage precluding the addition of

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | AJXF943010 |

safes and the updating of computer systems, in addition to causing a safety hazard. To date, the 89 AW and 89 SPTG staff have moved in with portions of finance, manpower, 89 AW Judge Advocate, 89 AW Community Support, CBPO, Civilian Personnel and Traffic Management. The functions which can move without construction have moved. The major components of the heating system are original from 1946 construction of the building, and the air conditioning system is 1964 construction. The main chillers and air handling units are no longer available, and the system is overtaxed because the loads in the building have gradually increased over the years. Air handling units are undersized for the building configuration and loads and wall mounted fan coil units are ineffective for open office areas. Current substandard facilities require inordinate amounts of utilities, maintenance and repair. Parts are not available to repair obsolete systems, requiring extra effort in manufacturing or altering substitutes.

IMPACT IF NOT PROVIDED: If upgrades are not accomplished building tenants will be forced to occupy substandard spaces. HQ AFOSI will not be able to meet expanding mission requirements levied by DOD, HQ USAF, and the NCA because of the structural limitations of their current facility. In addition, the condition of facility systems, including HVAC, lighting, electrical, and security will continue to degrade, increasing the drain on scarce O&M resources. System outages impact the ability of occupants to perform their missions.

ADDITIONAL: This project will result in the vacating of facilities on the following government properties: Washington Navy Yard (1,100 SF), Bolling AFB (98,500 SF) and Fort Belvoir (19,652 SF). Initial beddown requirements (excluding HQ AFOSI) were met under O&M renovation project AJXF921586, Renovate Base Headquarters. The primary justification for this project is consolidation and reduction of space. An economic analysis has been performed which supports this project as the most economical alternative to provide adequate facilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE COMPOSITE ADMINISTRATION FACILITY (DBOF) | AJXF943010 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 93 APR 20 |
| (b) Percent Complete as of Jan 93 | 2% |
| (c) Date 35% Designed | 93 OCT 01 |
| (d) Date Design Complete | 94 MAR 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 483 |
| (b) All Other Design Costs | 322 |
| (c) Total | 805 |
| (d) Contract | 478 |
| (e) In-house | 327 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| OFFICE EQUIPMENT | 3080 | 93 | 650 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | BASE ENGINEERING COMPLEX (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 1.18.96M | 219-944 | NZAS943250 | 6,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEERING COMPLEX (DBOF) | SF | 47,900 | | 4,753 |
| BASE PAVEMENTS & GROUND FACILITY | SF | 17,500 | 150 | (2,625) |
| BASE ENGINEER COVERED STORAGE | SF | 30,400 | 70 | (2,128) |
| SUPPORTING FACILITIES | | | | 840 |
| UTILITIES/COMM SUPPORT | LS | | | ( 740) |
| PAVEMENTS | SY | 2,800 | 36 | ( 100) |
| SUBTOTAL | | | | 5,593 |
| CONTINGENCY (5%) | | | | 280 |
| TOTAL CONTRACT COST | | | | 5,873 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 352 |
| TOTAL REQUEST | | | | 6,225 |
| TOTAL REQUEST (ROUNDED) | | | | 6,200 |

10. Description of Proposed Construction: Reinforced concrete foundation footings and floor slabs, concrete masonry unit or reinforced precast concrete walls, sloped roof on steel deck, electrically operated vehicle doors, utility services, oil/water separator, storm drainage, parking and storage area pavement upgrade, curbs, gutters, security fencing, CID, fire protection, area lighting and necessary support.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 163,415 SF ADEQUATE: 107,353 SF
SUBSTANDARD: 47,332 SF
PROJECT: Construct a base engineering complex. (Current Mission)
REQUIREMENT: Adequate and properly configured facilities are required to house base and missile site workforce management and control and in-house engineering and contract management staffs. Covered storage is required to protect construction materials and snow removal equipment/materials from pilferage and exposure to the deteriorating influences of the weather. Properly configured pavements and grounds and maintenance shop space must be provided for effective execution of facility and utility maintenance and repair responsibilities throughout the base, and off-base missile launch and control facilities. These functions must have an environment conducive to the effective maintenance and support of all facilities, and design/construction of facility projects. Overall space requirements have been adjusted downward in view of reduced future manning for the BCE organization.
CURRENT SITUATION: Adequate and safe facilities are not available. The pavements and equipment shop, exterior electric, equipment and material staging areas, and the management offices to support missile engineering, readiness management and training are currently accommodated in a

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX (DBOF) | NZAS943250 |

deteriorated World War II wood frame hangar. The facility has been assigned an OSHA Risk Assessment Code (RAC) II, and a Fire Protection Deficiency Code of II, both identifying a serious deficiency which could result in loss of life or resources valued at over $1M. Because of its location on the flightline, the facility also creates a hazard for aircraft operations due to mud and debris falling from maintenance vehicles and creating a foreign object damage potential for aircraft. The wood roof and wall trusses are cracked and rotten and the built-up roof leaks onto equipment and materials stored in the facility. The hangar has large sections where the cement asbestos siding is missing and has been replaced with painted plywood. The hangar has no wall or roof insulation and no fire suppression or detection systems. Most of the electrical distribution and lighting systems are 1943 vintage and are totally inadequate. The electrical distribution system is overloaded and is a fire hazard. A portion of the base engineer materials and equipment staging areas are located separately from the maintenance complex. This project will consolidate these functions.

IMPACT IF NOT PROVIDED: Base Civil Engineering management and support functions will continue operating from unsafe, undersized, separated and inadequate facilities which negatively impact mission capability and the morale of assigned personnel. The potential for catastrophic fire or industrial accident with serious injuries or significant loss of life and resources will remain unacceptably high.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEERING COMPLEX (DBOF) | NZAS943250 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 DEC 22 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 90 SEP 15 |
| (d) Date Design Complete | 93 JUN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 372 |
| (b) All Other Design Costs | 180 |
| (c) Total | 552 |
| (d) Contract | 439 |
| (e) In-house | 113 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | C-17 FIRE STATION (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30M | 130-142 | AGGN943000 | 780 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 FIRE STATION (DBOF) | SF | 2,600 | 110 | 286 |
| SUPPORTING FACILITIES | | | | 415 |
| UTILITIES | LS | | | (150) |
| PAVEMENTS | LS | | | (250) |
| SITE IMPROVEMENTS | LS | | | ( 15) |
| SUBTOTAL | | | | 701 |
| CONTINGENCY (5%) | | | | 35 |
| TOTAL CONTRACT COST | | | | 736 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 44 |
| TOTAL REQUEST | | | | 780 |
| TOTAL REQUEST (ROUNDED) | | | | 780 |

10. Description of Proposed Construction: Concrete footings, foundation, and floor slab, masonry walls, steel joists, roof decking, and sloped roof. Extend utilities as necessary, and construct asphalt access road. Air Conditioning: 5 Tons.

11. REQUIREMENT: 19,100 SF ADEQUATE: 16,500 SF SUBSTANDARD: 0
PROJECT: Construct C-17 fire station. (New Mission)
REQUIREMENT: A secondary fire station is needed to safeguard aircrews and aircraft on the assualt strip (FY91 MILCON) and parallel runway (FY92 MILCON). This fire station will allow prepositioning of crash-rescue vehicles in close proximity to these new launch and recovery surfaces.
CURRENT SITUATION: Air Force regulations require that the fire department be able to respond to an unannounced aircraft emergency anywhere on the airfield within three minutes. Vehicles located at the base's single fire station cannot meet the response requirement to the new launch and recovery surfaces.
IMPACT IF NOT PROVIDED: Aircrew and aircraft will be at higher risk due to lack of fire protection in close proximity. Crash equipment will have to travel up to one mile further before they arrive at the accident scene. Minor accidents may become more severe, possibly resulting in the unnecessary loss of life, if the fire department cannot respond within three minutes. The base's airlift training and aerial refueling missions will be put at higher risk.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 FIRE STATION (DBOF) | AGGN943000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 17 |
| (d) Date Design Complete | 93 MAY 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 47 |
| (b) All Other Design Costs | 67 |
| (c) Total | 114 |
| (d) Contract | 82 |
| (e) In-house | 32 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30M | 171-212 | AGGN943004 | 2,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | SF | 12,400 | 165 | 2,046 |
| SUPPORTING FACILITIES | | | | 375 |
| UTILITIES | LS | | | ( 210) |
| SITE IMPROVEMENTS | LS | | | ( 55) |
| PAVEMENTS | SY | 2,850 | 39 | ( 110) |
| SUBTOTAL | | | | 2,421 |
| CONTINGENCY (10%) | | | | 242 |
| TOTAL CONTRACT COST | | | | 2,663 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 160 |
| TOTAL REQUEST | | | | 2,823 |
| TOTAL REQUEST (ROUNDED) | | | | 2,850 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (63,600) |

10. Description of Proposed Construction: Concrete foundations, floor slab, masonry walls, high bay areas, and sloped roof. All special foundations and utilities systems to support the simulator equipment. Also included are supporting pavements for roads, parking and sidewalks. Air Conditioning: 50 Tons.

11. REQUIREMENT: 127,667 SF ADEQUATE: 115,292 SF SUBSTANDARD: 0

PROJECT: Add to C-17 flight simulation training facility, phase 2 of 2. (New Mission)

REQUIREMENT: Four bays are required to house new six-way flight simulators for the C-17 aircrew training program. These simulators will provide initial training, qualification, proficiency, and effective mission procedures training. These simulators are essential to provide hazardous emergency training procedures that otherwise could not be provided. For example, it would not be possible to actually fly three engine take offs safely. Facility construction is required in FY94 in order that the facility be construction complete in August 1995 to meet the simulator equipment delivery date of September 1995.

CURRENT SITUATION: This project is the second phase of a two phase program to construct flight simulator facilities to support the beddown of the C-17 aircraft at this base. The first phase was approved in the FY91 MILCON program to support initial delivery of the new aircraft and construction will be completed in 1993. This request will provide the final three bays needed to support C-17 aircrew training requirements. Other existing simulator facilities are and will continue to be in use for C-141, C-5, and KC-135 aircrew training. There are no other facilities on base which can be upgraded to meet this requirement.

IMPACT IF NOT PROVIDED: The beddown of the C-17 aircraft could not be

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | AGCN943004 |

accomplished without providing an adequate flight simulator facility for training aircrews. Delay in providing requested construction will be grounds for the simulator equipment vendor to renegotiate the contract to provide the three simulators. It is estimated that a new contract will result in a $30 to $40 million increase to purchase simulator equipment. ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, addition and new construction) was done. It indicates there is only one option (addition) that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO FLIGHT SIMULATION TRAINING FACILITY, PHII (DBOF) | AGGN943004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 AUG 16 |
| (d) Date Design Complete | 93 JUN 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 135 |
| (b) All Other Design Costs | 116 |
| (c) Total | 251 |
| (d) Contract | 180 |
| (e) In-house | 71 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| C-17 FLIGHT SIMULATOR | 3080 | FY92 | 63600 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALTUS AIR FORCE BASE, OKLAHOMA | C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30M | 218-712 | AGGN923002 | 3,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | SF | 27,000 | | 2,518 |
| AEROSPACE GROUND EQUIPMENT ADDITION | SF | 8,200 | 100 | ( 820) |
| AIRCRAFT MAINTENANCE UNIT ADDITION | SF | 12,000 | 86 | (1,032) |
| EQUIPMENT SHOP/STORAGE ADDITION | SF | 6,800 | 98 | ( 666) |
| SUPPORTING FACILITIES | | | | 295 |
| UTILITIES | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 35) |
| PAVEMENTS | LS | | | ( 60) |
| FUEL DISPENSING/STORAGE | LS | | | ( 50) |
| SUBTOTAL | | | | 2,813 |
| CONTINGENCY (10%) | | | | 281 |
| TOTAL CONTRACT COST | | | | 3,094 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 186 |
| TOTAL REQUEST | | | | 3,280 |
| TOTAL REQUEST (ROUNDED) | | | | 3,300 |

10. Description of Proposed Construction: Addition to Aircraft Ground Equipment (AGE) Shop will have concrete footings, foundation and floor slab with high bay steel frame, insulated walls and roof and overhead two ton hoist. Addition to the Aircraft Maintenance Unit (AMU) will be a steel framed mezzanine, latrines, utilities and necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to C-17 aircraft maintenance facility. (New Mission)

REQUIREMENT: Properly sized and configured facility for maintenance, repair and storage of powered aircraft support equipment including administrative support, tools, maintenance equipment, bench stock, technical data library and battery storage to support the beddown of the C-17 aircraft. A properly sized Aircraft Maintenance Unit (AMU) is required for the displaced C-5 AMU in Building 279 (AGE Shop) and the new C-17 AMU to provide adequate administrative support, tool kit storage area, change rooms, and technical data library to support each weapon system.

CURRENT SITUATION: The existing aircraft support shop is not properly configured, sized to support the new mission. The existing facility does not allow for easy access to maintenance bays for daily maintenance or storage to prevent damage from inclement weather. Equipment awaiting parts must be secured and placed outside to allow other equipment to be maintained. There are no other facilities available to house the new C-17 AMU or the C-5 AMU relocated with this project without construction of additional space.

IMPACT IF NOT PROVIDED: It will not be possible to provide adequate aircraft support equipment maintenance and AMU space for the new C-17 aircraft and AMU space to support the C-5 aircraft. Lack of functional

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | AGGN923002 |

AGE and AMU facilities will delay aircraft generation, and in some cases, loss of critical training missions.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared which supports this project. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ALTUS AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADD TO AIRCRAFT MAINTENANCE FACILITY (DBOF) | AGGN923002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 SEP 17 |
| (d) Date Design Complete | 93 MAY 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 200 |
| (b) All Other Design Costs | 187 |
| (c) Total | 387 |
| (d) Contract | 239 |
| (e) In-house | 148 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TINKER AIR FORCE BASE, OKLAHOMA | INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-155 | WWYK943011 | 5,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | LS | | | 3,650 |
| INDUSTRIAL WASTEWATER LINES | LF | 15,000 | 170 | (2,550) |
| LIFT STATIONS | EA | 2 | 550,000 | (1,100) |
| SUPPORTING FACILITIES | | | | 1,175 |
| UTILITIES | LS | | | ( 225) |
| SITE IMPROVEMENTS | LS | | | ( 300) |
| LEAK MONITORING SYSTEM | LS | | | ( 400) |
| COMMINUTOR | LS | | | ( 250) |
| SUBTOTAL | | | | 4,825 |
| CONTINGENCY (5%) | | | | 241 |
| TOTAL CONTRACT COST | | | | 5,066 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 304 |
| TOTAL REQUEST | | | | 5,370 |
| TOTAL REQUEST (ROUNDED) | | | | 5,400 |

10. Description of Proposed Construction: Install a force and gravity flow wastewater connection main with an interstitial monitoring system. Includes pumps, valves, ancillary items and necessary support.

11. REQUIREMENT: As required.

PROJECT: Install a wastewater regional connection pipeline. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project to provide a connection to the local municipal sewage collection system to allow Tinker AFB to meet permitted effluent limitations for wastewater discharge from the two base treatment plants. A sewage lift station and a section of forced mains are required to pump the effluent uphill from the base treatment plants, and a comminutor is needed to grind solids in the wastewater. Connection must be provided by August 1995 to ensure compliance.

CURRENT SITUATION: Effluent from the existing industrial wastewater treatment plant (IWTP) and sanitary treatment plant (STP) discharges into an intermittent creek. The low water to effluent ratio at the point of discharge results in very low permit discharge limits for many constituents. The plants have a history of noncompliance. Both plants are barely meeting discharge limits. The current base discharge permit expires in August 1993. The state has indicated that upon renewal, the base's permit will contain even lower limits to meet Clean Water Act, Section 304(l) requirements for toxicity control. The IWTP could not meet lower limits without the benefit of a major upgrade. Upon completion of this project the IWTP would be retained as a pretreatment facility and the STP will be closed.

IMPACT IF NOT PROVIDED: The base industrial wastewater treatment plant

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | WWYK943011 |

will continue to exceed National Pollutant Discharge Elimination System (NPDES) permitted limits for effluent discharge. Potential fines and possible plant closure may result. Plant closure will shut down critical depot maintenance operations, severely crippling depot mission accomplishment.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| INDUSTRIAL WASTEWATER REGIONAL CONNECTION (DBOF) | WWYK943011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 06 |
| (d) Date Design Complete | 93 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 320 |
| (b) All Other Design Costs | 175 |
| (c) Total | 495 |
| (d) Contract | 330 |
| (e) In-house | 165 |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CHARLESTON AIR FORCE BASE, SOUTH CAROLINA | FIRE TRAINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.56 | 179-511 | DKFX963500 | 1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE TRAINING FACILITY (DBOF) | EA | 1 | 815,000 | 815 |
| SUPPORTING FACILITIES | | | | 155 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | SY | 1,300 | 35 | ( 45) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 970 |
| CONTINGENCY (5%) | | | | 49 |
| TOTAL CONTRACT COST | | | | 1,019 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 61 |
| TOTAL REQUEST | | | | 1,080 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Live fire training facility with large frame aircraft mock-up, polyethylene liner system, JP-4 fuel pump and piping system, commercial power hook-up, gravity oil/water separator, access road, effluent holding pond and all necessary support.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS

PROJECT: Construct fire training facility. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. A live fire training facility is required to meet all environmental and safety regulations. Live fire training exercises, an FAA quarterly requirement, enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and contaminating the groundwater.

CURRENT SITUATION: The existing live fire training facility violated EPA pollution standards and was closed in 1984. It is inadequate for training as defined by Air Force regulation. The current aircraft mock-up is smaller than the required size and is not accessible for multi-directional approaches creating an artificial environment which limits the quality of training. The existing facility does not have high-density polyethylene flexible membrane liners and nets, a leak detection system, and spill containment capability. There are no environmentally approved live fire training facilities in the local area.

IMPACT IF NOT PROVIDED: The existing facility is closed because it does not meet environmental requirements. Required live fire training for the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | DKFX963500 |

assigned fire fighters is not available. Without the stress and realism that come only with live fires, the fire fighters lose proficiency in combating fires. The potential for loss of aircraft and life is increased.

ADDITIONAL: There are no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | DKFX963500 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 30 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 SEP 15 |
| (d) Date Design Complete | 93 JUN 25 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | SCOTT |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 57 |
| (b) All Other Design Costs | 19 |
| (c) Total | 76 |
| (d) Contract | 57 |
| (e) In-house | 19 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30L | 211-153 | MBPB943007 | 4,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | SF | 74,000 | | 4,036 |
| ALTERATION | SF | 57,000 | 38 | (2,166) |
| ADDITION | SF | 17,000 | 110 | (1,870) |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| SUBTOTAL | | | | 4,206 |
| CONTINGENCY (10%) | | | | 421 |
| TOTAL CONTRACT COST | | | | 4,627 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 278 |
| TOTAL REQUEST | | | | 4,905 |
| TOTAL REQUEST (ROUNDED) | | | | 4,900 |

10. Description of Proposed Construction: Addition includes concrete foundation and floor slab, metal walls and roof, relocation of hangar doors with new doors in the center section. Alteration includes upgrade of drainage and fire suppression systems, replacement of lighting and HVAC equipment, painting and necessary support.

11. REQUIREMENT: 87,750 SF ADEQUATE: 13,750 SF SUBSTANDARD: 57,000 SF
PROJECT: Add to and alter a C-17 nondestructive inspection (NDI) facility. (New Mission)
REQUIREMENT: A properly sized and configured facility is required in which to perform nondestructive inspections on C-17 aircraft prior to the onset of depot maintenance operations at this base. The facility must be large enough to house the entire aircraft and must have adequate utilities and fire protection. An addition to the existing hangar is needed to enclose the C-17 empennage section and revitalization of the utilities is needed to ensure efficient and reliable inspections.
CURRENT SITUATION: The existing facility was constructed in 1942 as an aircraft maintenance hangar. While the building is structurally sound, it is neither large enough nor high enough to enclose the C-17 tail section. Additionally, the heating and ventilation systems are marginal, while the industrial waste drains, lighting, hoists and fire protection system are inadequate for nondestructive inspection activities.
IMPACT IF NOT PROVIDED: Deferral of inspection workloads until space becomes available in the maintenance hangar, which will upset depot maintenance schedules and delay return of the aircraft to the using organization.
ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | MBPB943007 |

May 1990. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, contracting and status quo operation. Based on the net present values and benefits of the respective alternative, revitalization was found to be the most cost effective over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ADAL NONDESTRUCTIVE INSPECTION FACILITY (DBOF) | MBPB943007 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 05 |
| (d) Date Design Complete | 93 OCT 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 275 |
| (b) All Other Design Costs | 117 |
| (c) Total | 392 |
| (d) Contract | 275 |
| (e) In-house | 117 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.11.30L | 217-712 | MBPB933003 | 731 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | SF | 23,000 | 26 | 598 |
| SUPPORTING FACILITIES | | | | 30 |
| UTILITIES | LS | | | ( 30) |
| SUBTOTAL | | | | 628 |
| CONTINGENCY (10%) | | | | 63 |
| TOTAL CONTRACT COST | | | | 691 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 41 |
| TOTAL REQUEST | | | | 732 |
| TOTAL REQUEST (ROUNDED) | | | | 731 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (15,400) |

10. Description of Proposed Construction: Installation of additional lighting, improved electric power, sound abatement and necessary support.

11. REQUIREMENT: 220,900 SF ADEQUATE: 189,900 SF
SUBSTANDARD: 23,000 SF
PROJECT: Alter a C-17 depot avionics facility. (New Mission)
REQUIREMENT: A suitable facility is required to provide a completely organic capability for depot repair and test of C-17 avionics systems and components to maintain combat readiness. Environmentally controlled areas for test and overhaul of shop-repairable components, radar and antenna array and radomes are required. Under the C-17 concept, the depot must also establish an avionics intermediate shop which will be used to test and repair line-replaceable units as well as some software associated with avionics. Minor alterations to an existing building are needed to satisfy this requirement.
CURRENT SITUATION: Even though the existing depot avionics shops are utilized to near capacity, reductions in other workloads will make space available to accommodate the C-17 workload within existing space; however, some of that space will have to be modified to accommodate state-of-the-art technologies associated with the C-17. Deficiencies include inadequate lighting, unconditioned electrical power and inadequate noise abatement.
IMPACT IF NOT PROVIDED: Most of the avionics support for the C-17 will have to be contracted out at greatly increased costs. More importantly, the divided repair responsibility will result in significant delays in completion of depot repairs and return of aircraft to operational units.
ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | MBPB933003 |

May 1990. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide", or in Air Force Manual 86-2, "Standard Facility Requirements".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| C-17 ALTER DEPOT AVIONICS FACILITY (DBOF) | MBPB933003 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 SEP 05 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 20 |
| (d) Date Design Complete | 93 OCT 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 43 |
| (b) All Other Design Costs | 66 |
| (c) Total | 109 |
| (d) Contract | 56 |
| (e) In-house | 53 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|
| 13 SHOP REPLACEABLE UNIT TEST EQUIPMENT | 3010 | FY94 | 15400 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 610-675 | MBPB943012 | 7,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | LS | | | 5,770 |
| INTERIOR ALTERATIONS | SF | 130,000 | 29 | (3,770) |
| EXTERIOR UPGRADE | LS | | | (2,000) |
| SUPPORTING FACILITIES | | | | 905 |
| UTILITIES | LS | | | ( 200) |
| PAVEMENTS | SY | 10,500 | 29 | ( 305) |
| SITE IMPROVEMENTS | LS | | | ( 100) |
| DEMOLITION | LS | | | ( 300) |
| SUBTOTAL | | | | 6,675 |
| CONTINGENCY (10%) | | | | 668 |
| TOTAL CONTRACT COST | | | | 7,343 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 441 |
| TOTAL REQUEST | | | | 7,784 |
| TOTAL REQUEST (ROUNDED) | | | | 7,800 |

10. Description of Proposed Construction: Interior alterations include new suspended ceiling and lighting, fire detection and suppression system, carpet, wall covering, asbestos removal, window/door replacement, HVAC and electrical system upgrade. Exterior work includes window and entrance improvements, painting, site clean-up and necessary support.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 1,050,000 SF ADEQUATE: 729,600 SF
SUBSTANDARD: 607,500 SF
PROJECT: Alter a weapon systems support center. (Current Mission)
REQUIREMENT: A facility of adequate size and configuration with proper environmental controls is needed to assure timely and efficient logistical support to the managed weapon systems. Significant economies will result from collocation of logistics functions, directed by Defense Management Review (DMR) actions. These involve the acquisition, modification, repair and distribution of aircraft, engines and spare parts. Space savings envisioned in this project will make such a collocation possible without added floor space. This final phase will allow consolidation of material management functions currently located in remote buildings. Required improvements include installation of energy efficient doors, windows, lighting, and air conditioning, and replacement of worn out floor covering and asbestos ceilings.
CURRENT SITUATION: Core logistic functions are fragmented in five inadequate facilities separated by up to 1.5 miles. This fragmentation adversely impacts productivity and increases logistics response and pipeline times. The majority of the logistics professionals have been cramped into the inadequate Weapon Systems Support Center, which was constructed in 1942 as a warehouse and later converted to an administrative facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | MBPB943012 |

Projected force reductions resulting from the DMR, now make it possible to house all core logistics functions in the same building, if the floor plan is revised and building deficiencies corrected to accommodate long-term use. Building deficiencies include an unsafe electrical system (Risk Assessment Code 2 has been assigned), inadequate air conditioning, asbestos insulation and ceiling tiles, rotted window frames, and worn out exterior doors. The facility consumes energy at a rate 25% higher than a new or upgraded facility. Consolidation of functions will not only improve productivity, but will permit the demolition of about 28,000 square feet of substandard facilities upon completion of this project.
IMPACT IF NOT PROVIDED: Continued fragmentation of core logistics personnel and processes will significantly degrade logistics support to other major commands and friendly foreign nations, weakening their combat readiness posture. It will also increase DOD logistical support costs, waste energy, and defeat zero overpricing initiatives.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, private sector financing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER WEAPON SYSTEMS SUPPORT CENTER, PHASE II (DBOF) | MBPB943012 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 APR 12 |
| (b) Percent Complete as of Jan 93 | 50% |
| (c) Date 35% Designed | 91 JUN 20 |
| (d) Date Design Complete | 93 JUN 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 310 |
| (b) All Other Design Costs | 216 |
| (c) Total | 526 |
| (d) Contract | 310 |
| (e) In-house | 216 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TEXAS | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.28.96 | 721-312 | MBPB867337 | 2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 28,650 | | 1,500 |
| ADDITION | SF | 3,350 | 70 | ( 235) |
| ALTERATIONS | SF | 25,300 | 50 | (1,265) |
| SUPPORTING FACILITIES | | 1 | | 200 |
| PAVEMENTS | LS | | | ( 125) |
| COMMUNICATIONS SUPPORT | LS | | | ( 25) |
| UTILITIES | LS | | | ( 25) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 1,700 |
| CONTINGENCY (10%) | | | | 170 |
| TOTAL CONTRACT COST | | | | 1,870 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 112 |
| TOTAL REQUEST | | | | 1,982 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Remodel interior partitioning to provide room-bathroom modules, exterior entrances and balconies; extend roofline and upgrade exterior; install cable TV system, upgrade laundry rooms and HVAC systems and provide necessary support.
Grade Mix: 272 E1-E4.

11. REQUIREMENT: 1,357 PN ADEQUATE: 1,085 PN SUBSTANDARD: 272 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that is conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy, are essential to the successful accomplishment of the increasingly complicated jobs these people must perform.
CURRENT SITUATION: The buildings to be upgraded were constructed in the early 1950s with community latrines on each floor, and are deficient in living space, privacy, sound attenuation, convenience outlets, lighting, and insulation. Many occupants are shift workers who find that the traffic in the corridors make daytime sleep difficult or impossible. This is the fourth phase of a five-phased program.
IMPACT IF NOT PROVIDED: Substandard on-base living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted force.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction and revitalization. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | MBPB867337 |

efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | MBPB867337 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 OCT 17 |
| (b) Percent Complete as of Jan 93 | | 35% |
| (c) Date 35% Designed | | 92 DEC 30 |
| (d) Date Design Complete | | 94 JAN 20 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 120 |
| (b) All Other Design Costs | | 200 |
| (c) Total | | 320 |
| (d) Contract | | 290 |
| (e) In-house | | 30 |
| (4) Construction Start | | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HILL AIR FORCE BASE, UTAH | FIRE TRAINING FACILITY (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 179-511 | KRSM933019 | 880 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE TRAINING FACILITY (DBOF) | EA | 1 | 570,000 | 570 |
| SUPPORTING FACILITIES | | | | 220 |
| UTILITIES | LS | | | (130) |
| SITE IMPROVEMENTS | LS | | | ( 90) |
| SUBTOTAL | | | | 790 |
| CONTINGENCY (5%) | | | | 40 |
| TOTAL CONTRACT COST | | | | 830 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 50 |
| TOTAL REQUEST | | | | 880 |
| TOTAL REQUEST (ROUNDED) | | | | 880 |

10. Description of Proposed Construction: Live fire training pit with aircraft mock-up and associated environmental and safety systems (water separator, holding tank and berms). Includes utilities and necessary support.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA

PROJECT: Construct a fire training facility. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project which will correct violations of existing statutes. A live fire training facility meeting all environmental and safety regulations is required. FAA requires quarterly live fire training exercises to enable fire fighters to maintain a high level of proficiency by extinguishing two types of live fires: mass fuel spills and three dimensional (running fuel) fires. These exercises, performed on mock-ups typical of the mission assigned aircraft, have historically created compliance problems with the Clean Water Act. An impermeable lining below the pit area is required to prevent waste oils and fuels from leaching into the ground and to prevent groundwater from becoming contaminated by residual unburned fuel.

CURRENT SITUATION: The live fire training facility at this base does not meet the standards established for this type of facility by the Environmental Protection Agency (EPA). While this facility is currently used on a limited basis, the lining and other environmental control measures do not meet requirements of the new Clean Water Act. Alternative training methods have been considered, but all have proven non-productive. Off-base training is not acceptable since it would remove both the crews and fire vehicles from the base, making them unavailable for response to emergencies.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | KRSM933019 |

IMPACT IF NOT PROVIDED: Base fire crews will continue to be denied FAA required live fire training, adversely impacting their degree of readiness. Lack of training could result in injury, loss of life, or loss of an aircraft.
ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or AFM 86-2.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE TRAINING FACILITY (DBOF) | KRSM933019 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 15 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 21 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | MT HOME |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 53 |
| (b) All Other Design Costs | 60 |
| (c) Total | 113 |
| (d) Contract | 47 |
| (e) In-house | 66 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HILL AIR FORCE BASE, UTAH | UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 7.80.56 | 831-155 | KRSM943032 | 5,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | KG | 1,500 | 2,290 | 3,435 |
| SUPPORTING FACILITIES | | | | 945 |
| UTILITIES | LS | | | ( 295) |
| SITE IMPROVEMENTS | LS | | | ( 155) |
| STORAGE BUILDING | SF | 1,600 | 50 | ( 80) |
| REMOVE CONTAMINATED SOIL | LS | | | ( 295) |
| O&M MANUAL, TRAINING AND START-UP | LS | | | ( 120) |
| SUBTOTAL | | | | 4,380 |
| CONTINGENCY (10%) | | | | 438 |
| TOTAL CONTRACT COST | | | | 4,818 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 289 |
| TOTAL REQUEST | | | | 5,107 |
| TOTAL REQUEST (ROUNDED) | | | | 5,100 |

10. Description of Proposed Construction: Remove concrete tanks, install new processing equipment and automated control system, and replace instrumentation. Includes necessary piping, accesories and site work, removal of existing tanks, construction of a 1600 SF storage building, removal of contaminated soil as required, and 180 day start-up operation and system certification.

11. REQUIREMENT: 1,500 KG ADEQUATE: 0 SUBSTANDARD: 1,500 KG
PROJECT: Upgrade an industrial wastewater treatment plant. (Current Mission)
REQUIREMENT: This is a Level II environmental compliance project. An adequate industrial wastewater treatment plant (IWTP) is required to remove pollutants from industrial wastewater generated from the depot's maintenance activities, including aircraft and jet engine overhaul, metal plating, painting and paint stripping. The treatment process must produce an effluent which meets the discharge pretreatment limits set by the North Davis County Sewer District. It is anticipated by 1995 that these pretreatment limits will be much lower as North Davis County further controls user discharges to allow themselves to meet lower Clean Water Act limits for toxicity and hazardous waste limits on sludge refuse.
CURRENT SITUATION: The existing IWTP, built in 1970 and expanded in 1979, operates between 300 and 600 gallons per minute (gpm). It cannot consistently remove metals to the low concentrations required by the National Pollution Discharge Elimination System permit prior to discharge into a local waterway. This permit expires December 31, 1994, at which time the discharge limits governing Hill will likely be far more restrictive. District officials have advised base officials that new limits will be provided by August 1993. The clarifiers are too small to

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | KRSM943032 |

provide sufficient settling of heavy metals at flows above 350 gpm. The emergency spill tank does not have capacity to store over one hour's accumulation of wastes, and the grit chamber must be manually cleaned four or five times per year. The manual control system does not allow for real time monitoring of the plant's operating parameters, resulting in delays of up to 48 hours before necessary adjustments can be made. This situation resulted in 12 days of noncompliance leading to two notices of violation in FY 1991.

IMPACT IF NOT PROVIDED: The capability of the IWTP to stay in compliance with its permit limits, the Clean Water Act and RCRA will be in jeopardy. Fines or other enforcement actions, including shutdown or reduction of depot maintenance activities that generate wastewater, are a distinct possibility if the project is not provided.

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or Air Force Manual 86-2, "Standard Facility Requirements". A life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation, new construction, and contracting out the function). This analysis indicates that alteration is clearly the best alternative over the life of the facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE INDUSTRIAL WASTEWATER TREATMENT PLANT (DBOF) | KRSM943032 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 02 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 NOV 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | YES |
| (b) Where Design Was Most Recently Used - | HILL |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 300 |
| (b) All Other Design Costs | 201 |
| (c) Total | 501 |
| (d) Contract | 399 |
| (e) In-house | 102 |
| (4) Construction Start | 94 FEB |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | ADD TO AND ALTER DORMITORIES (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 721-312 | PQWY933030 | 6,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | SF | 63,800 | | 5,075 |
| ALTERATION | SF | 49,600 | 82 | (4,067) |
| ADDITION (BALCONIES) | SF | 14,200 | 71 | (1,008) |
| SUPPORTING FACILITIES | | | | 485 |
| UTILITIES | LS | | | ( 245) |
| PAVEMENTS | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 120) |
| SUBTOTAL | | | | 5,560 |
| CONTINGENCY (10%) | | | | 556 |
| TOTAL CONTRACT COST | | | | 6,116 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 367 |
| TOTAL REQUEST | | | | 6,483 |
| TOTAL REQUEST (ROUNDED) | | | | 6,500 |

10. Description of Proposed Construction: Upgrade existing facility and construct addition for balcony entrances. Includes room-bath-room configuration, insulation and sound attenuation, utilities and other necessary support.

11. REQUIREMENT: 1,770 PN ADEQUATE: 918 PN SUBSTANDARD: 819 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: Existing unaccompanied personnel housing is far below current DOD standards. These dormitories have central latrines, inadequate control of heating, insufficient noise attenuation and lack the necessary amenities to adequately house enlisted personnel. This project will upgrade two facilities to meet current DOD standards and is phase three of a five-phase program to upgrade dorms at McChord. Current dormitory occupancy rate at McChord is 96 percent.
IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to be a contributing factor to low morale, reduced productivity and dissatisfaction with Air Force life for unaccompanied enlisted personnel.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation and new

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | PQWY933030 |

construction). This analysis indicates renovation is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DORMITORIES (DBOF) | PQWY933030 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUN 03 |
| (b) Percent Complete as of Jan 93 | 30% |
| (c) Date 35% Designed | 93 FEB 19 |
| (d) Date Design Complete | 93 AUG 31 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 295 |
| (b) All Other Design Costs | 266 |
| (c) Total | 561 |
| (d) Contract | 393 |
| (e) In-house | 168 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | CHILD DEVELOPMENT CENTER COMPLEX (DBOF) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 4.18.96 | 740-884 | PQWY933011 | 4,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | SF | 33,400 | | 3,282 |
| CHILD DEVELOPMENT CENTER (A) | SF | 16,000 | 100 | (1,600) |
| CHILD DEVELOPMENT CENTER (B) | SF | 15,000 | 100 | (1,500) |
| MECHANICAL SUPPORT FACILITY | SF | 2,400 | 76 | ( 182) |
| SUPPORTING FACILITIES | | | | 650 |
| SITE IMPROVEMENTS | LS | | | ( 155) |
| UTILITIES | LS | | | ( 295) |
| PAVEMENTS | LS | | | ( 160) |
| DEMOLITION/ASBESTOS REMOVAL | SF | 3,200 | 13 | ( 40) |
| SUBTOTAL | | | | 3,932 |
| CONTINGENCY (5%) | | | | 197 |
| TOTAL CONTRACT COST | | | | 4,129 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 248 |
| TOTAL REQUEST | | | | 4,377 |
| TOTAL REQUEST (ROUNDED) | | | | 4,400 |

10. Description of Proposed Construction: All structural, electrical and mechanical work necessary to construct two child development center facilities. Includes classrooms, kitchen, multipurpose rooms, nurseries, administrative space, mechanical equipment room and necessary support. Air Conditioning: 40 Tons.

11. REQUIREMENT: 50,550 SF ADEQUATE: 19,564 SF SUBSTANDARD: 3,200 SF
PROJECT: Construct a child development center complex. (Current Mission)
REQUIREMENT: A complex which provides adequate space and environment for child development requirements and an atmosphere conducive to the needs of young dependent children of assigned military and civilian personnel. McChord has a total of 674 children of military and civilian families eligible for day care. Current space criteria restricts the size of child development centers to accommodate only 305 children in one facility. In order to provide the required space to support eligible children at this installation, two facilities are needed.
CURRENT SITUATION: The current facilities accommodate only 38 percent of the demand for child care. Changes in the make-up of the military and civilian population have increased the need for full-day child care development services. Single parents, dual working couples, and working spouses have changed the focus from a recreational support activity to a mission support program. Because more children stay at the center ten hours a day, five days a week, improved developmental care facilities must provide more adequate indoor and outdoor play space, learning centers, sleeping facilities and kitchen/food service areas. Expanded program requirements cannot be provided and the increased demand for child care cannot be met due to lack of space. Current waiting list for full-time day care is 384 children. Certified home care is available (35 homes care

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | PQWY933011 |

for 210 children); however, additional facilities are required. One substandard facility will be disposed of upon completion of this project.
IMPACT IF NOT PROVIDED: Lack of quality and affordable child care contributes to employee absenteeism, low morale and has a negative impact on the military and civilian workforces.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A life-cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, renovation and new construction). This analysis indicates the new construction alternative is the most economical. Project has been considered for FY97 force structure end strength.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CHILD DEVELOPMENT CENTER COMPLEX (DBOF) | PQWY933011 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 MAY 29 |
| (b) Percent Complete as of Jan 93 | 15% |
| (c) Date 35% Designed | 93 JUL 15 |
| (d) Date Design Complete | 93 DEC 04 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 273 |
| (b) All Other Design Costs | 114 |
| (c) Total | 387 |
| (d) Contract | |
| (e) In-house | 387 |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

FY 1994 NARRATIVE SUMMARY

It is the Department of Defense policy that excellent housing facilities be provided for all military members and their families and continual improvement in quality be the measure of excellence. The annual military family housing appropriation supports this policy. We depend first on the local community to meet our housing needs. When not available, military family housing should meet contemporary community living standards. Our housing inventory should be operated and maintained to a standard that protects it from deterioration and maintains the quality level established by previous Congressional appropriations. Our goal is to provide quality homes that meet contemporary whole-house standards.

Family housing is one of the most important quality of life issues in the Air Force. Improving or replacing our aging housing inventory is a top facility priority. Our military members and their families expect and deserve homes which meet current standards of livability. In the era of downsizing, we cannot afford to lose highly trained Air Force members because adequate housing on or near our military installations is not available. Also, we cannot afford to let our existing military family housing inventory deteriorate, or fail to modernize it to reduce operating costs.

This budget provides a balanced program between construction, operations, maintenance, and leasing. Due to the uncertainty of basing in overseas areas, we have concentrated our construction efforts on housing in the CONUS. New construction projects for housing will replace worn-out and substandard homes in areas which violate airfield clearance and noise exposure criteria. We continue to propose projects to provide new support facilities at installations with the greatest need. The total construction funding level indicates the Air Force's dedicated commitment to replace or revitalize our existing inventory in order to meet contemporary standards. We are concentrating on our oldest homes located in the CONUS and replacing or improving as economic analysis indicates.

The operations, maintenance, and leasing accounts predominately support "must pay" requirements such as civilian pay, service contracts, lease contracts, utilities, and required maintenance to keep existing housing units from further deteriorating. The maintenance account also supports our goal to decrease the deferred maintenance and repair backlog to a one year real property maintenance level of approximately $400 million over a ten year period. Also, the furnishings account provides for required government furniture overseas and initial issue of appliances to support new housing throughout the Air Force.

We believe this funding profile represents a well balanced program to achieve quality of life goals for military families within the fiscal constraints imposed. We respectfully request full and complete support for the Air Force family housing needs presented in this request.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

INDEX


| SUBJECT | PAGE |
|---|---|
| FAMILY HOUSING NARRATIVE | 720 |
| INDEX | 721 |
| SUMMARY | 723 |
| LEGISLATIVE LANGUAGE | 724 |
| Authorization | |
| Appropriation | |
| PROGRAM AND FINANCING SCHEDULES | 727 |
| NEW CONSTRUCTION | |
| Current Mission | 732 |
| Summary | 733 |
| Maxwell AFB AL | 734 |
| Vandenberg AFB CA | 738 |
| Patrick AFB FL | 742 |
| Tyndall AFB FL | 746 |
| Robins AFB GA | 748 |
| Barksdale AFB LA | 752 |
| Hanscom AFB MA | 756 |
| Lackland AFB TX | 760 |
| Fairchild AFB WA | 764 |
| F.W.Warren AFB WY | 768 |
| Comiso AS, IT | 772 |
| Little Rock AFB AR | 773 |
| Malmstrom AFB MT | 774 |
| Dyess AFB TX | 775 |
| Langley AFB VA | 777 |
| POST ACQUISITION CONSTRUCTION | |
| Summary | 780 |
| United States | |
| Alaska | 782 |
| Arizona | 782 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

INDEX (con't)


United States (continued)
California 783
Colorado 784
Florida 784
Idaho 785
Illinois 785
Ohio 786
South Carolina 786
Washington 787

Overseas
Australia 788
Guam 788

Post Acquisition Construction Projects Over $50,000 Per Unit 789

ADVANCE PLANNING AND DESIGN 808

OPERATIONS AND MAINTENANCE SUMMARY

Narrative 810
Inventory and Funding Summary 813

OPERATIONS 814

UTILITIES 818

MAINTENANCE 820

MAINTENANCE AND REPAIR OVER $15,000 PER UNIT 823

GENERAL AND FLAG OFFICER QUARTERS 826

REIMBURSABLE PROGRAM 828

LEASING

Narrative 829
Exhibit FH-4, Leasing (Other than Section 801 & 802) 832
Exhibit FH-4A, High Cost Foreign Leased Units 833
Exhibit FH-5, Section 801 Leases 834

DEBT PAYMENTS 836

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

FINANCIAL SUMMARY

AUTHORIZATION FOR APPROPRIATION REQUESTED FOR FY 1994
($ in Thousands):

| FUNDING PROGRAM FY 1994 | | |
|---|---|---|
| Construction | | $ 110,264 |
| Post-Acquisition Construction | | 53,070 |
| Design and Advance Planning | | 9,901 |
| Appropriation Request: Construction | | $ 173,235 |
| Operations, Utilities and Maintenance | | $ 735,625 |
| Operating Expenses | 120,647 | |
| Utilities | 211,036 | |
| Maintenance | 403,942 | |
| Leasing - Worldwide | | $ 118,266 |
| Debt Payment | | $ 21 |
| Premiums for Servicemen's Mortgage Insurance Coverage | 21 | |
| Appropriation Request: O&M, Leasing, and Debt Payment | | $ 853,912 |
| Appropriation Request | | $1,027,147 |
| Reimbursement Program | | $ 9,397 |
| FY 1994 Family Housing Program | | $1,036,544 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Authorization Language

SEC. 2302. FAMILY HOUSING

(a) CONSTRUCTION AND ACQUISITION. - Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(7)(A), the Secretary of the Air Force may construct or acquire family housing units (including land acquisition) at the installations, for the purposes, and in the amounts set forth in the following table:

| STATE | INSTALLATION | PURPOSE | AMOUNT |
|---|---|---|---|
| Alabama | Maxwell AFB | 55 Units | $ 4,080,000 |
| Arkansas | Little Rock AFB | Housing Office & Maint Fac | $ 980,000 |
| California | Vandenberg AFB | 166 Units | $21,907,000 |
| Florida | Patrick AFB | 155 Units | $15,388,000 |
| | Tyndall AFB | Infrastructure | $ 5,732,000 |
| Georgia | Robins AFB | 118 Units | $ 7,424,000 |
| Louisiana | Barksdale AFB | 118 Units | $ 8,578,000 |
| Massachusetts | Hanscom AFB | 48 Units | $ 5,135,000 |
| Montana | Malmstrom AFB | Housing Office | $ 581,000 |
| Texas | Dyess AFB | Housing Maint Facility | $ 281,000 |
| | Lackland AFB | 111 Units | $ 8,770,000 |
| Virginia | Langley AFB | Housing Office | $ 452,000 |
| Washington | Fairchild AFB | 1 Unit | $ 184,000 |
| Wyoming | F.E. Warren AFB | 104 Units | $10,572,000 |
| Italy | Comiso AB | 460 Units | $20,200,000 |

(b) PLANNING AND DESIGN. - Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(5)(A), the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed $9,901,000.

SEC. 2303. IMPROVEMENT TO MILITARY FAMILY HOUSING UNITS

Subject to section 2825 of Title 10, United States Code, using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(7)(A), the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed $53,070,000.

SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) IN GENERAL

(7) For military family housing functions -

(A) For construction and acquisition of military family housing and facilities, $173,235,000.

(B) For support of military family housing (including functions described in section 2833 of title 10, United States Code), $853,912,000, of which not more than $118,266,000 may be obligated or expended for leasing of military family housing units worldwide.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Appropriation Language

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension and alteration and for operations and maintenance, including debt payment, leasing, minor construction, and insurance premiums, as authorized by law as follows: for Construction, ($283,786,000) $173,235,000, for Operations and Maintenance, and Debt Payment ($927,941,000) $853,912,000; in all ($1,211,727,000) $1,027,147,000: Provided: That the amount provided for construction shall remain available until (September 30, 1997) September 30, 1998.

7040f

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

| Identification code 57-7040-0-1-051 | Budget Plan (amounts for FAMILY HOUSING actions programed) | | |
|---|---|---|---|
| | 1992 actual | 1993 est. | 1994 est. |
| Program by activities: | | | |
| Direct program: | | | |
| 01.0101 Construction of new housing | 70,047 | 126,329 | 110,264 |
| 01.0201 Post Acquisition Construction | 141,239 | 150,000 | 53,070 |
| 01.0301 Planning and design | 8,500 | 7,457 | 9,901 |
| 01.9101 Total direct program | 217,783 | 283,786 | 173,235 |
| 01.0101 Reimbursable Program | 334 | | |
| 10.0001 Total | 218,117 | 283,786 | 173,235 |
| Financing: | | | |
| Offsetting collections from: | | | |
| 14.0001 Non-Federal sources(-) | -334 | | |
| 17.0001 Recovery of prior year obligations | | | |
| Unobligated balance available, start of year: | | | |
| 21.4002 For completion of prior year budget plans | | | |
| 21.4009 Reprograming from/to prior year budget plans | | | |
| 23.0001 Unobligated balance transferred from other accounts (-) | -2,597 | | |
| Unobligated balance available, end of year: | -8,500 | | |
| 24.4002 For completion of prior year budget plans | | | |
| 25.0001 Unobligated balance expiring | 3,597 | | |
| 40.0001 Budget authority (Appropriation) | 209,283 | 283,786 | 173,235 |
| Relation of obligations to outlays: | | | |
| 71.0001 Obligations incurred | | | |
| 72.4001 Obligated balance, start of year | | | |
| 74.4001 Obligated balance, end of year | | | |
| 77.0001 Adjustments in expired accounts (net) | | | |
| 78.0001 Adjustments in unexpired accounts | | | |
| 90.0001 Outlays (net) | | | |

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

REPORT 21

| Identification code 57-7040-0-1-091 | Obligations 1992 actual | 1993 est. | 1994 est. |
|---|---|---|---|
| Program by activities: | | | |
| Direct program: | | | |
| 01.0101 Construction of new housing | 28,006 | 112,473 | 141,465 |
| 01.0201 Post Acquisition Construction | 102,781 | 231,801 | 72,226 |
| 01.0301 Planning and design | 7,652 | 11,278 | 9,982 |
| 01.9101 Total direct program | 139,438 | 355,552 | 223,673 |
| 01.0101 Reimbursable Program | | | |
| 10.0001 Total | 139,438 | 355,552 | 223,673 |
| Financing: | | | |
| Offsetting collections from: | | | |
| 14.0001 Non-Federal sources(-) | -334 | | |
| 17.0001 Recovery of prior year obligations | -7,154 | | |
| Unobligated balance available, start of year: | | | |
| 21.4002 For completion of prior year budget plans | -118,092 | -200,328 | -128,562 |
| 21.4009 Reprograming from/to prior year budget plans | | | |
| 22.0001 Unobligated balance transferred from other accounts (-) | -8,500 | | |
| Unobligated balance available, end of year: | | | |
| 24.4002 For completion of prior year budget plans | 200,326 | 126,582 | 78,124 |
| 28.0001 Unobligated balance expiring | 3,897 | | |
| 40.0001 Budget authority (Appropriation) | 209,283 | 283,788 | 173,235 |
| Relation of obligations to outlays: | | | |
| 71.0001 Obligations incurred | 139,104 | 355,552 | 223,673 |
| 72.4001 Obligated balance, start of year | 181,447 | 218,931 | 415,685 |
| 74.4001 Obligated balance, end of year | -218,931 | -415,685 | -414,967 |
| 77.0001 Adjustments in expired accounts (net) | -2,025 | | |
| 78.0001 Adjustments in unexpired accounts | -7,154 | | |
| 90.0001 Outlays (net) | 92,442 | 158,798 | 224,391 |

Family Housing Conatruction, Air Force
Object Classification (in Thousands of dollars) SUMMARY

| Identification code 57-7040-0-1-051 | 1992 actual | 1993 est. | 1994 est. |
|---|---|---|---|
| Direct obligations: | | | |
| 132.001 Land and structures | 139,438 | 355,552 | 223,673 |
| 199.001 Total direct obligations | 139,438 | 355,552 | 223,673 |
| 999.901 Total obligations | 139,438 | 355,552 | 223,673 |

Family Housing Operations & Debt, AF
Program and Financing (in Thousands of dollars)

| Identification code 57-7045-0-1-051 | | 1992 actual | 1993 est. | 1994 est. |
|---|---|---|---|---|
| | Program by activities: | | | |
| | Direct program: | | | |
| 02.0101 | Operating expenses | 341,465 | 359,475 | 331,983 |
| 02.0201 | Leasing | 117,448 | 150,800 | 118,269 |
| 02.0301 | Maintenance of real property | 442,320 | 387,598 | 403,942 |
| 02.0501 | Mortgage insurance premiums | 80 | 70 | 21 |
| 02.9101 | Total direct program | 901,313 | 927,941 | 853,912 |
| 03.0101 | Reimbursable Program | 8,978 | 8,275 | 9,397 |
| 10.0001 | Total obligations | 910,291 | 936,216 | 883,309 |
| | Financing: | | | |
| | Offsetting collections from: | | | |
| 11.0001 | Federal funds(-) | -1,175 | -7,199 | -7,227 |
| 14.0001 | Non-Federal sources(-) | -7,803 | -1,076 | -2,170 |
| 22.0001 | Unobligated balance transferred from other accounts (-) | -30,300 | | |
| 25.0001 | Unobligated balance expiring | 32,187 | | |
| 40.0001 | Budget authority (Appropriation) | 903,200 | 927,941 | 853,912 |
| | Relation of obligations to outlays: | | | |
| 71.0001 | Obligations incurred | 901,313 | 927,941 | 853,912 |
| 72.4001 | Obligated balance, start of year | 274,482 | 347,931 | 351,736 |
| 74.4001 | Obligated balance, end of year | -347,931 | -351,738 | -330,871 |
| 77.0001 | Adjustments in expired accounts (net) | -16,003 | | |
| 90.0001 | Outlays (net) | 811,861 | 924,136 | 874,777 |

Family Housing Operations & Debt, AF
Object Classification (in Thousands of dollars)

| Identification code 57-7045-0-1-051 | | 1992 actual | 1993 est. | 1994 est. |
|---|---|---|---|---|
| | Direct obligations: | | | |
| 121.001 | Travel and transportation of persons | 3,483 | 3,980 | 3,995 |
| 122.001 | Transportation of things | 8,987 | 7,720 | 4,615 |
| 123.201 | Rental payments to others | 227,281 | 181,068 | 184,209 |
| | Other services: | | | |
| 125.203 | Contracts | 252,849 | 279,837 | 243,248 |
| 126.204 | Other | 139,335 | 154,393 | 157,985 |
| 126.001 | Supplies and materials | 13,933 | 15,438 | 57,388 |
| 131.001 | Equipment | 43,542 | 48,248 | 19,094 |
| 132.001 | Land and structures | 191,585 | 212,290 | 183,500 |
| 143.001 | Interest and dividends | 22,841 | 25,089 | |
| 199.001 | Total Direct obligations | 901,313 | 927,941 | 853,912 |
| | Reimbursable obligations: | | | |
| | Other services: | | | |
| 226.204 | Other | 8,978 | 8,276 | 9,397 |
| 299.001 | Total Reimbursable obligations | 8,978 | 8,276 | 9,397 |
| 999.901 | Total obligations | 910,291 | 936,216 | 863,309 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

CURRENT MISSION ACTIVITIES

In compliance with the Senate Appropriations Committee Report (100-380) of the FY 1989 Military Construction Appropriation Act, the Air Force has included the following exhibit that displays construction projects requested in two separate categories: new mission and current mission. For FY 1994 we are only requesting funds for current mission. "Current mission" projects are those projects that either replace inadequate existing facilities or construct new facilities which are not available to meet current requirements.

NEW CONSTRUCTION

| LOCATIONS REPLACEMENT HOUSING | MISSION | NUMBER OF UNITS | REQUESTED AUTHORIZATION AMOUNT ($000) |
|---|---|---|---|
| Maxwell AFB AL | Current | 55 | 4,080 |
| Vandenberg AFB CA | Current | 166 | 21,907 |
| Patrick AFB FL | Current | 155 | 15,388 |
| Tyndall AFB FL | Current | LS | 5,732 |
| Robins AFB GA | Current | 118 | 7,424 |
| Barksdale AFB LA | Current | 118 | 8,578 |
| Hanscom AFB MA | Current | 48 | 5,135 |
| Lackland AFB TX | Current | 111 | 8,770 |
| Fairchild AFB WA | Current | 1 | 184 |
| FE Warren AFB WY | Current | 104 | 10,572 |
| Comiso AF IT | Current | 460 | 20,200 |
| Little Rock AFB AR | Current | Hsg Ofc & Maint Fac | 980 |
| Malmstrom AFB MT | Current | Housing Office | 581 |
| Dyess AFB TX | Current | Housing Maint Fac | 281 |
| Langley AFB VA | Current | Housing Office | 452 |
| CURRENT MISSION TOTAL | | | 110,264 |
| IMPROVEMENTS | | | 53,070 |
| PLANNING AND DESIGN | | | 9,901 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

NEW CONSTRUCTION

Program (In Thousands)
FY 1994 Program $110,264
FY 1993 Program $126,329

Purpose and Scope

This program provides for the replacement of existing homes where improvements are not economically feasible and acquisition of build/lease homes where purchase is more economical than continuous lease, and support facilities at locations where existing facilities are not adequate. Costs reflect all amounts necessary to provide complete and usable facilities.

Program Summary

Authorization is requested for:

Replacement of 876 units and 4 support facilities, and acquisition of 460 units through Lease Buy Out.

A summary of the funding program for FY 1994 follows:

| LOCATION REPLACEMENT HOUSING | MISSION | NUMBER OF UNITS | REQUESTED AUTHORIZATION AMOUNT ($000) |
|---|---|---|---|
| Maxwell AFB AL | Current | 55 | 4,080 |
| Vandenberg AFB CA | Current | 166 | 21,907 |
| Patrick AFB FL | Current | 155 | 15,388 |
| Tyndall AFB FL | Current | LS | 5,732 |
| Robins AFB GA | Current | 118 | 7,424 |
| Barksdale AFB LA | Current | 118 | 8,578 |
| Hanscom AFB MA | Current | 48 | 5,135 |
| Lackland AFB TX | Current | 111 | 8,770 |
| Fairchild AFB WA | Current | 1 | 184 |
| FE Warren AFB WY | Current | 104 | 10,572 |
| Comiso AB IT | Current | 460 | 20,200 |
| Little Rock AFB AR | Current | Hsg Ofc & Maint Fac | 980 |
| Malmstrom AFB MT | Current | Housing Office | 581 |
| Dyess AFB TX | Current | Housing Maint Fac | 281 |
| Langley AFB VA | Current | Housing Office | 452 |
| CURRENT MISSION TOTAL | | | 110,264 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | AIR UNIVERSITY | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 973 | 1600 | 1466 | 1556 | 46 | 14 | | | | 5,655 |
| b. End FY 1998 | 1202 | 2731 | 2306 | 1557 | 457 | 36 | 4 | 34 | 23 | 8,350 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 3,528) | |
| b. Inventory Total As Of: (30 SEP 92) | 196,253 |
| c. Authorization Not Yet In Inventory: | 23,320 |
| d. Authorization Requested In This Program: | 4,080 |
| e. Authorization Included In Following Program: (FY 1995) | 2,100 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 225,753 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE FAMILY HOUSING | 55 UN | 4,080 | TURN KEY | |
| | | TOTAL: | 4,080 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 711-142 | REPLACE FAMILY HOUSING | 25 UN | 2,100 | | |
| | | TOTAL: | 2,100 | | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Headquarters Air University; Air War College; Air Command and Staff College; Squadron Officers School; Center for Aerospace Doctrine, Research, and Education; Air Force Quality Center; Ira C. Eaker Center for Professional Development; Air Force Historical Research Agency; Headquarters Air Force Reserve Officer Training Corps; Headquarters Civil Air Patrol; Community College of the Air Force; an Air Force Reserve airlift group (C-130 aircraft); and Air Mobility Command airlift squadron (C-21 aircraft).

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MAXWELL AIR FORCE BASE, ALABAMA | REPLACE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | PNQS944039 | 4,080 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING | UN | 55 | 43,708 | 2,404 |
| SUPPORTING FACILITIES | | | | 1,278 |
| SITE PREPARATION | LS | | | ( 330) |
| ROADS AND PAVING | LS | | | ( 222) |
| UTILITIES | LS | | | ( 259) |
| LANDSCAPING | LS | | | ( 100) |
| RECREATION | LS | | | ( 42) |
| OTHER (SPECIFY) DEMOLITION | LS | | | ( 325) |
| SUBTOTAL | | | | 3,682 |
| CONTINGENCY (5%) | | | | 184 |
| TOTAL CONTRACT COST | | | | 3,866 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 213 |
| TOTAL REQUEST | | | | 4,080 |
| AREA COST FACTOR .77 | | | | |

10. Description of Proposed Construction: Replace 55 family housing units including all support facilities. Project will construct family housing units with associated carports, storage, patios and privacy fencing. Housing will include heating, cooling, energy conservation features, carpeting and appliances. Supporting facilities include all site preparation, utilities, roads, parking, playground and landscaping.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 2BR | 950 | .78 | 53 | 35 | 1,374,555 |
| JNCO 3BR | 1200 | .78 | 53 | 14 | 694,512 |
| JNCO 4BR | 1350 | .78 | 53 | 6 | 334,854 |
| | | | | 55 | 2,403,921 |

11. PROJECT: Demolish fifty-six existing units and replace by constructing fifty-five new units. (Current Mission)
REQUIREMENT: Project will provide adequate quarters for Air Force members and their families assigned to this installation. Project includes all work necessary to provide units meeting whole house/whole neighborhood criteria.
CURRENT SITUATION: These Row units were constructed in 1941. The units are not energy efficient and housing density is overcrowded. The existing area will allow construction of only 55 units using current planning factors. Play areas for children and toddlers are below standards or nonexistent; presently the youngsters use the streets as playgrounds. Off-street parking does not meet minimum requirement of 2.5 parking spaces per unit nor one covered space. During rainy periods, roofs leak,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MAXWELL AIR FORCE BASE, ALABAMA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| REPLACE FAMILY HOUSING | | PNQS944039 |

damaging units as well as personal property of occupants. Existing electrical system does not meet National Electric Code requirements. All utilities systems have outlived life expectancy and need to be replaced. Expansion is required to alleviate lack of storage, cabinet, and counter space. Units are not compatible to reconfiguration. Kitchens and bathrooms are outdated and require complete renovation and/or replacement.
IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsuitable conditions affecting morale, performance, and the retention of quality personnel.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of construction, improvement, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| MILITARY FAMILY HOUSING JUSTIFICATION | 2. DATE (YYMMDD) | 1994 | DD-A&L (AR) 1710 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME MAXWELL AIR FORCE BASE | b. LOCATION ADJACENT TO NORTHWEST CORNER OF MONTGOMERY, ALABAMA | |
| 5. DATA AS OF 31 JANUARY 1992 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3-E1 (c) | TOTAL (d) | OFFICER (e) | E9-E4 (f) | E3-E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 2,594 | 2,812 | 458 | 5,864 | 3,115 | 2,657 | 469 | 6,241 |
| 7. PERMANENT PARTY PERSONNEL | 1,969 | 2,482 | 458 | 4,909 | 2,022 | 2,352 | 415 | 4,789 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 1,717 | 2,167 | 183 | 4,067 | 1,750 | 1,854 | 136 | 3,740 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 403 | 536 | 97 | 1,036 | | | | |
| a. INVOLUNTARILY SEPARATED | 33 | 17 | 3 | 53 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 55 | | 55 | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 370 | 464 | 94 | 928 | | | | |
| 10. VOLUNTARY SEPARATIONS | 253 | 198 | 11 | 462 | 258 | 169 | 6 | 435 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 1,464 | 1,969 | 172 | 3,605 | 1,492 | 1,685 | 128 | 3,305 |
| 12. HOUSING ASSETS (a + b) | 1,136 | 1,507 | 75 | 2,718 | 1,136 | 1,506 | 75 | 2,719 |
| a. UNDER MILITARY CONTROL | 396 | 584 | | 980 | 396 | 584 | | 980 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 326 | 569 | | 897 | 396 | 584 | | 980 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | 66 | 15 | | 83 | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 740 | 923 | 75 | 1,738 | 740 | 924 | 75 | 1,739 |
| (1) ACCEPTABLY HOUSED | 733 | 919 | 75 | 1,727 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 7 | 4 | | 11 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 328 | 462 | 97 | 887 | 356 | 177 | 53 | 586 |
| 14. PROPOSED PROJECT | | | | | | 55 | | 55 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6 – 13. BASIC DATA WERE EXTRACTED FROM THE FAMILY HOUSING SURVEY OF JANUARY 1992.

ITEM 14. PROPOSED PROJECT.

CONSTRUCT: 35 TWO BEDROOM UNITS FOR E4–E6
14 THREE BEDROOM UNITS FOR E4–E6
6 FOUR BEDROOM UNITS FOR E4–E6

DD FORM 1523, NOV 90

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| VANDENBERG AIR FORCE BASE, CALIFORNIA | AIR FORCE SPACE COMMAND | 1.36 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 667 | 2650 | 1226 | | | | | | | 4,543 |
| b. End FY 1998 | 638 | 2405 | 1217 | | | | | | | 4,260 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 98,831) | |
| b. Inventory Total As Of: (30 SEP 92) | 1,058,848 |
| c. Authorization Not Yet In Inventory: | 67,750 |
| d. Authorization Requested In This Program: | 21,907 |
| e. Authorization Included In Following Program: (FY 1995) | 16,460 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 1,164,965 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE CAPEHART HOUSING, PHASE 1 | 166 UN | 21,907 | TURN KEY | |
| | | TOTAL: | 21,907 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | |
|---|---|---|---|---|
| 711-142 | FY70 APPROPRIATED FAMILY HSG | 135 UN | 16,460 | TURN KEY |
| | | TOTAL: | 16,460 | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Headquarters Twentieth Air Force; a space wing which is responsible for operational and test launches of missiles, satellites, and space vehicles in polar orbits and for research and development of missile and space systems; a test wing responsible for ICBM operations test and evaluation launches; a missile evaluation squadron; a combat air rescue detachment (UH-1 helicopters); and an Air Training Command missile crew training squadron.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VANDENBERG AIR FORCE BASE, CALFORNIA | REPLACE CAPEHART HOUSING, PHASE 1 |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | XUMU924014P1 | 21,907 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING | UN | 166 | 77,304 | 12,832 |
| SUPPORTING FACILITIES | | | | 6,944 |
| SITE PREPARATION | LS | | | ( 1,422) |
| ROADS AND PAVING | LS | | | ( 949) |
| UTILITIES | LS | | | ( 2,055) |
| LANDSCAPING | LS | | | ( 789) |
| RECREATION | LS | | | ( 168) |
| SPECIAL CONSTRUCTION FEATURES | LS | | | ( 1,561) |
| SUBTOTAL | | | | 19,776 |
| CONTINGENCY (5%) | | | | 989 |
| TOTAL CONTRACT COST | | | | 20,765 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 1,142 |
| TOTAL REQUEST | | | | 21,907 |
| AREA COST FACTOR 1.36 | | | | |

10. Description of Proposed Construction: Replace 166 Capehart housing units. Work includes site preparation, landscaping, and provision of pedestrian/bike trails and recreational areas.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 2BR | 950 | 1.35 | 53 | 89 | 6,049,553 |
| JNCO 3BR | 1200 | 1.35 | 53 | 61 | 5,237,460 |
| JNCO 4BR | 1350 | 1.35 | 53 | 16 | 1,545,480 |
| | | | | 166 | 12,832,493 |

11. REQUIREMENT: 1,733 UN ADEQUATE: 0 SUBSTANDARD: 2,078 UN
PROJECT: Replace 166 Capehart units. (Current Mission)
REQUIREMENT: This is a replacement project to provide adequate housing for military personnel.
CURRENT SITUATION: These units are over 30 years old and have deteriorated to the point where replacement is the most economical alternative. Wiring and fixtures have been identified by the Fire Department and Base Safety as not meeting code. Wiring is brittle and exposed in many units and is a fire hazard. Plumbing systems have succumbed to the effects of hard water and corrosion, resulting in severe constriction and pipe leakage. Plumbing fixtures are worn and unattractive. Main and master baths are deteriorated and outdated, having shower enclosures and medicine cabinets which are corroded, discolored, and pitted. Additionally, the way the units are presently configured is inefficient.
IMPACT IF NOT PROVIDED: Air Force members and their families will

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| VANDENBERG AIR FORCE BASE, CALFORNIA | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| REPLACE CAPEHART HOUSING, PHASE 1 | XUMU924014P1 |

continue to be housed with inadequate water and electrical service. The occupants will suffer continual water leaks in their ceilings causing damage to the ceiling, light fixtures and furniture. Without the replacement of these units, repairs of these units will continue in a costly, piecemeal fashion, with no improvement in the quality of life for the occupants.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitilization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement was found to be the most cost efficient over the life of the project.

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L (AR) 1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME VANDENBERG AIR FORCE BASE | b. LOCATION ELEVEN MILES NORTH OF LOMPOC, CALIFORNIA | |
| 5. DATA AS OF 31 JANUARY 1992 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 - E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 820 | 2,145 | 520 | 3,485 | 646 | 1,898 | 713 | 3,257 |
| 7. PERMANENT PARTY PERSONNEL | 703 | 2,145 | 520 | 3,368 | 646 | 1,898 | 713 | 3,257 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 572 | 1,676 | 174 | 2,422 | 497 | 1,386 | 224 | 2,107 |
| 9. TOTAL UNACCEPTABLY HOUSE (a + b + c) | 6 | 184 | 2 | 192 | | | | |
| a. INVOLUNTARILY SEPARATED | | 5 | 2 | 7 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 173 | | 173 | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 6 | 6 | | 12 | | | | |
| 10. VOLUNTARY SEPARATIONS | 6 | 80 | 3 | 89 | 5 | 66 | 4 | 75 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 566 | 1,596 | 171 | 2,333 | 492 | 1,320 | 220 | 2,032 |
| 12. HOUSING ASSETS (a + b) | 591 | 1,619 | 171 | 2,381 | 617 | 1,767 | 3 | 2,387 |
| a. UNDER MILITARY CONTROL | 483 | 1,340 | 166 | 1,971 | 485 | 1,486 | | 1,971 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 434 | 1,309 | 166 | 1,911 | 485 | 1,486 | | 1,971 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | 29 | 31 | | 60 | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 128 | 279 | 3 | 410 | 132 | 281 | 3 | 416 |
| (1) ACCEPTABLY HOUSED | 126 | 276 | 1 | 403 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 2 | 3 | 2 | 7 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | -25 | -23 | | -48 | -125 | -447 | 217 | -355 |
| 14. PROPOSED PROJECT | | | | | | 166 | | 166 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6 - 13. BASIC DATA WERE EXTRACTED FROM THE FAMILY HOUSING SURVEY JANUARY 1992.

ITEM 14. PROPOSED PROJECT.

CONSTRUCT: 89 TWO BEDROOM UNITS FOR E4-E6
61 THREE BEDROOM UNITS FOR E7-E9
16 FOUR BEDROOM UNITS FOR E4-E6

DD FORM 1523, NOV 90

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| PATRICK AIR FORCE BASE, FLORIDA | AIR FORCE SPACE COMMAND | 0.91 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 473 | 2317 | 1054 | | | | 33 | 531 | 15 | 4,423 |
| b. End FY 1998 | 462 | 1704 | 960 | | | | 33 | 531 | 15 | 3,705 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 2,341) | |
| b. Inventory Total As Of: (30 SEP 92) | 148,294 |
| c. Authorization Not Yet In Inventory: | 7,700 |
| d. Authorization Requested In This Program: | 15,388 |
| e. Authorization Included In Following Program: (FY 1995) | 10,000 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 181,382 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE CENTRAL WHERRY HOUSING | 155 UN | 15,388 | TURN KEY | |
| | | TOTAL: | 15,388 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 711-142 | REPLACE CENTRAL WHERRY HOUSING PHASE II | 105 UN | 10,000 | TURN KEY | |
| | | TOTAL: | 10,000 | | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A space wing; the Air Force Technical Applications Center; two Air Mobility Command air rescue squadrons (HH-3 helicopters and HC-130 aircraft); and an Air Combat Command combat communications group. Also, the temporary beddown location for the Air Force Reserve air rescue squadron (MH-60 helicopters) from Homestead AFB, FL. Major tenants include the DOD Equal Opportunity Management Institute and a State Department aviation unit.

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| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PATRICK AIR FORCE BASE, FLORIDA | REPLACE CENTRAL WHERRY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | SXHT944005 | 15,388 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING | UN | 155 | 58,156 | 9,014 |
| SUPPORTING FACILITIES | | | | 4,877 |
| GARAGES | LS | | | ( 1,068) |
| ASBESTOS ABATEMENT | LS | | | ( 730) |
| SITE PREPARATION | LS | | | ( 453) |
| ROADS AND PAVING | LS | | | ( 481) |
| UTILITIES | LS | | | ( 1,055) |
| LANDSCAPING | LS | | | ( 380) |
| RECREATION | LS | | | ( 90) |
| BUILDING DEMOLITION | LS | | | ( 620) |
| SUBTOTAL | | | | 13,891 |
| CONTINGENCY (5%) | | | | 695 |
| TOTAL CONTRACT COST | | | | 14,586 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 802 |
| TOTAL REQUEST | | | | 15,388 |
| AREA COST FACTOR .91 | | | | |

10. Description of Proposed Construction: Demolish 155 - (2/4) bedroom units in Central housing. Build/replace 155 - (2/4) bedroom units with atttached or semi-attached garages in the Central housing area. This project will also include whole neighborhood improvements.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 3BR | 1200 | .89 | 53 | 121 | 6,849,084 |
| JNCO 4BR | 1350 | .89 | 53 | 34 | 2,165,103 |
| | | | | 155 | 9,014,187 |

11. PROJECT: Replace 155 Wherry housing units. (Current Mission)
REQUIREMENT: This project is a replacement project to provide adequate housing for military personnel.
CURRENT SITUATION: The Patrick AFB units were constructed between 1952 and 1958 and consist of 245 officer quarters and 1,331 junior and senior enlisted quarters. 923 out of the total 1,576 units are undersized by more than 100 net square feet. 573 of the units were constructed with flat built-up gravel roofs. The built-up gravel roofs are over 15 years old and deteriorated to where they must be replaced. The exterior walls are concrete and stucco and have developed cracks that allow water and moisture intrusion to the interiors. Many of the wood porch components have deteriorated and the porches have been removed to prevent a safety hazard to the occupants. The infrastructure ( sewer, water, electrical) have deteriorated beyond economic repair. The plumbing, electrical and heating/air conditioning systems inside the units have also deteriorated beyond economic repair. All units have asbestos in the tiles, walls,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| PATRICK AIR FORCE BASE, FLORIDA | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| REPLACE CENTRAL WHERRY HOUSING | | SXHT944005 |

ceilings, and exterior, and all units contain lead based paint. In the very near future a determination will be made as to the livability of the 311 units which contain friable asbestos. These units may have to be closed to occupant use for the safety of our military personnel.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel. Ultimately, the mission of Patrick AFB would be degraded.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement was found to be the most cost efficient over the life of the project.

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L (AR) 1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION | | |
| 5. DATA AS OF MARCH 1991 | a. NAME PATRICK AIR FORCE BASE | b. LOCATION THREE MILES SOUTH OF COCOA BEACH, FLORIDA | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 -E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 667 | 2,431 | 447 | 3,545 | 665 | 2,448 | 397 | 3,510 |
| 7. PERMANENT PARTY PERSONNEL | 667 | 2,431 | 447 | 3,545 | 665 | 2,448 | 397 | 3,510 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 501 | 1,705 | 164 | 2,370 | 499 | 1,716 | 145 | 2,360 |
| 9. TOTAL UNACCEPTABLE HOUSE (a + b + c) | 29 | 262 | 7 | 298 | | | | |
| a. INVOLUNTARILY SEPARATED | | 4 | 3 | 7 | | | | |
| b. IN MAILITARY HOUSING TO BE DISPOSED/REPLACED | | 161 | | 161 | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 29 | 97 | 4 | 130 | | | | |
| 10. VOLUNTARY SEPARATIONS | 9 | 95 | 10 | 114 | 9 | 94 | 8 | 111 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 492 | 1,610 | 154 | 2,256 | 490 | 1,622 | 137 | 2,249 |
| 12. HOUSING ASSETS (a + b) | 457 | 1,517 | 150 | 2,124 | 466 | 1,498 | 137 | 2,101 |
| a. UNDER MILITARY CONTROL | 168 | 1,245 | 140 | 1,553 | 168 | 1,248 | 137 | 1,553 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 167 | 1,222 | 140 | 1,529 | 168 | 1,248 | 137 | 1,553 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | 1 | 23 | | 24 | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 299 | 272 | 10 | 581 | 298 | 259 | | 548 |
| (1) ACCEPTABLY HOUSED | 295 | 268 | 10 | 573 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 4 | 4 | | 8 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 25 | 93 | 4 | 122 | 24 | 124 | | 148 |
| 14. PROPOSED PROJECT | | | | | | 155 | | 155 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6 – 13. BASIC DATA WERE EXTRACTED FROM THE HOUSING MARKET ANALYSIS OF MARCH 1991.

ITEM 14. PROPOSED PROJECT.

CONSTRUCT: 121 THREE BEDROOM UNITS FOR E4 – E6
34 FOUR BEDROOM UNITS FOR E4 – E6

DD FORM 1523, NOV 90

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TYNDALL AIR FORCE BASE, FLORIDA | REPLACE FAMILY HOUSING PHASE 1 (INFRASTRUCTURE) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-311 | XLWU940101 | 5,732 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING PHASE 1 | | | | |
| (INFRASTRUCTURE) | LS | | | 5,174 |
| SITE PREPARATION | LS | | | ( 517) |
| ROADS & PAVEMENTS | LS | | | (1,578) |
| UTILITIES | LS | | | (2,789) |
| LANDSCAPING | LS | | | ( 114) |
| RECREATION | LS | | | ( 176) |
| SUBTOTAL | | | | 5,174 |
| CONTINGENCY (5%) | | | | 259 |
| TOTAL CONTRACT COST | | | | 5,433 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 299 |
| TOTAL REQUEST | | | | 5,732 |
| AREA COST FACTOR 0.86 | | | | |

10. Description of Proposed Construction: Construct roadways, streets, sidewalks, storm drainage, utilities, and all necessary infrastructure improvements to support the construction of 450 new MFH units. Includes recreation areas and all landscaping.

11. PROJECT: Replace Family Housing, Phase 1 (Infrastructure). (Current Mission)

REQUIREMENT: This project is required to provide adequate Military Family Housing to support military members and their families assigned to Tyndall AFB. This project is Phase 1 of a multi-phased project to construct 450 MFH units, and demolish 338 substandard MFH units. The first phase includes the installation of all necessary infrastructure for the construction of a new housing area.

CURRENT SITUATION: The Wherry units to be replaced were constructed in the 1950s, and have received only routine maintenance and repair since that time. Age and continuous heavy use have taken their toll and the units are beyond economic feasibility to upgrade. The only feasible option for providing adequate housing is to demolish the existing 338 Wherry units, and construct replacement housing on another site located on the main base. Relocation is required, in part, by the fact that a portion of the Wherry Housing is located within Tyndall's airfield Accident Potential Zone One (APZ I), and by the fact that both Wherry Housing areas are negatively impacted by Air Installation Compatible Use Zones (AICUZ) (all Wherry units are in the 70 Ldn to 80 Ldn noise contours). In addition, many of the houses front on a busy four-lane divided highway. Existing assets on base, and in the local market area, cannot satisfy the total requirements for our military families.

IMPACT IF NOT PROVIDED: Without this and subsequent phases of this

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

TYNDALL AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE FAMILY HOUSING PHASE 1 (INFRASTRUCTURE) | XLWU940101 |

initiative, repairs of the existing units will continue in a costly, piecemeal fashion, with no improvement in the quality of life for the occupants. Our inability to take better care of our military families will result in low morale and subsequent retention problems if such conditions are permitted to continue.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An Economic Analysis has not been prepared for this infrastructure support project. However, an economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation for the overall initiative to replace/construct 450 MFH units. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | AIR FORCE MATERIEL COMMAND | 0.77 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| a. As of 30 SEP 92 | 754 | 3150 | 13599 | | | | | | | 17,503 |
| b. End FY 1998 | 725 | 3025 | 11313 | | | | | | | 15,063 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 8,720) | |
| b. Inventory Total As Of: (30 SEP 92) | 466,871 |
| c. Authorization Not Yet In Inventory: | 61,720 |
| d. Authorization Requested In This Program: | 7,424 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 536,015 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING | 118 UN | 7,424 | TURN KEY | |
| | | TOTAL: | 7,424 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support, & depot-level maintenance of F-15, C-130, & C-141 aircraft, helicopters; tactical missiles, & avionics & electronic warfare systems; HQ AFRES; AMC air refueling wing with two KC-135 squadrons; ACC combat communications group; & an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars. Also, the main operating base for the Joint Surveillance & Target Attack Radar System (JSTARS) aircraft.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROBINS AIR FORCE BASE, GEORGIA | REPLACE WHERRY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | UHHZ924014N2 | 7,424 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE WHERRY HOUSING | UN | 118 | 45,742 | 5,398 |
| SUPPORTING FACILITIES | | | | 1,303 |
| SITE PREPARATION | LS | | | ( 215) |
| ROADS AND PAVING | LS | | | ( 210) |
| UTILITIES | LS | | | ( 220) |
| LANDSCAPING | LS | | | ( 128) |
| RECREATION | LS | | | ( 137) |
| DEMOLITION | LS | | | ( 393) |
| SUBTOTAL | | | | 6,701 |
| CONTINGENCY (5%) | | | | 335 |
| TOTAL CONTRACT COST | | | | 7,036 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 387 |
| TOTAL REQUEST | | | | 7,424 |
| AREA COST FACTOR .77 | | | | |

10. Description of Proposed Construction: Replace 118 JNCO units. Build units to authorized square footage limits for two, three, and four bedroom JNCO housing. Exterior appurtenances to include carports, porches, and patios. Neighborhood improvements include recreation, utilities, landscaping, signage, and drainage.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 2BR | 950 | .76 | 53 | 40 | 1,530,640 |
| JNCO 3BR | 1200 | .76 | 53 | 62 | 2,996,832 |
| JNCO 4BR | 1350 | .76 | 53 | 16 | 870,048 |
| | | | | 118 | 5,397,520 |

11. PROJECT: Provide replacements for 118 Wherry housing units. Build units to meet "whole house/whole neighborhood" standards. (Current Mission)
REQUIREMENT: Replacement of these units is required to provide adequate quarters for junior military members and their families assigned to this installation. Provide units which meet current USAF or local standards and have the authorized net square footage. Provide carports, neighborhood sidewalks, and adequate recreation areas.
CURRENT SITUATION: The Wherry housing area was constructed in the 1950s and has had only one interior improvement (1979) since then. The room sizes do not meet the minimum Air Force "whole house" standards. Functional layouts are inefficient and do not reflect contemporary styles. Carports are needed to protect occupants' vehicles from exposure to the elements. Driveways and off-street parking access will eliminate unsafe

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE WHERRY HOUSING | UHHZ924014N2 |

on-street parking. These units do not have adequate storage for lawnmowers, bicycles and tools. Interior wall finishes need revitalization, and the existing electrical wiring does not meet code. Lack of adequate drainage causes problems with standing water. Existing plumbing and HVAC systems are antiquated and unreliable. Water heaters are inadequate. These units require high maintenance and are inefficient.
IMPACT IF NOT PROVIDED: Junior enlisted members and their families will continue to be housed in unsuitable housing. The units will continue to require high levels of maintenance and energy consumption will remain high.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L(AR)1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME ROBINS AIR FORCE BASE | b. LOCATION EIGHTEEN MILES SOUTHEAST OF MACON, GEORGIA | |
| 5. DATA AS OF JUNE 1992 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 -E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 690 | 2,306 | 730 | 3,728 | 1,030 | 3,150 | 1,020 | 5,200 |
| 7. PERMANENT PARTY PERSONNEL | 690 | 2,306 | 730 | 3,728 | 1,030 | 3,150 | 1,020 | 5,200 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 553 | 1,783 | 232 | 2,568 | 780 | 2,400 | 311 | 3,491 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 55 | 316 | 80 | 451 | | | | |
| a. INVOLUNTARILY SEPARATED | 5 | 10 | 5 | 20 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 83 | | 83 | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 50 | 223 | 75 | 348 | | | | |
| 10. VOLUNTARY SEPARATIONS | | | | | | | | |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 553 | 1,783 | 232 | 2,568 | 780 | 2,400 | 311 | 3,491 |
| 12. HOUSING ASSETS (a + b) | 498 | 1,569 | 164 | 2,231 | 694 | 1,973 | 221 | 2,888 |
| a. UNDER MILITARY CONTROL | 245 | 1,151 | | 1,396 | 245 | 1,151 | | 1,396 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 245 | 1,151 | | 1,396 | 245 | 1,151 | | 1,396 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | | | | | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 253 | 418 | 164 | 835 | 449 | 822 | 221 | 1,492 |
| (1) ACCEPTABLY HOUSED | 253 | 399 | 152 | 804 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | | 19 | 12 | 31 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 55 | 214 | 68 | 337 | 88 | 427 | 90 | 603 |
| 14. PROPOSED PROJECT | | | | | | 118 | | 118 |

15. REMARKS

ITEM 6 – 13. BASIC DATA WERE EXTRACTED FROM THE HOUSING MARKET ANALYSIS OF JUNE 1992.

ITEM 14. PROPOSED PROJECT
CONSTRUCT: 40 TWO BEDROOM UNITS FOR E4–E6
62 THREE BEDROOM UNITS FOR E4–E6
16 FOUR BEDROOM UNITS FOR E4–E6

DD FORM 1523, NOV 89

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | AIR COMBAT COMMAND | 0.86 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 907 | 4789 | 1092 | | 509 | | 1 | 6 | | 7,304 |
| b. End FY 1998 | 822 | 4507 | 1265 | | 509 | | 1 | 6 | | 7,110 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 22,382) | |
| b. Inventory Total As Of: (30 SEP 92) | 205,446 |
| c. Authorization Not Yet In Inventory: | 43,340 |
| d. Authorization Requested In This Program: | 8,578 |
| e. Authorization Included In Following Program: (FY 1995) | 6,564 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 263,928 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING PHASE 1 | 118 UN | 8,578 | TURN KEY | |
| | | TOTAL: | 8,578 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING PHASE 2 | 82 UN | 6,564 | TURN KEY | |
| | | TOTAL: | 6,564 | | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Headquarters Eighth Air Force; a flying wing which includes two bombardment squadrons (B-52 aircraft) and one air refueling squadron (KC-135 aircraft); Air Mobility Command operations group (two air refueling squadrons of KC-10 aircraft) and airlift detachment (C-21 aircraft); and an Air Force Reserve fighter wing (A-10 and OA-10 aircraft) and KC-10 associate air refueling group.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE |
|---|---|---|
| AIR FORCE | (computer generated) | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | REPLACE WHERRY HOUSING PHASE 1 |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | AWUB945101 | 8,578 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING | UN | 118 | 56,106 | 6,620 |
| SUPPORTING FACILITIES | | | | 1,124 |
| SITE PREPARATION | LS | | | ( 118) |
| ROADS AND PAVING | LS | | | ( 507) |
| UTILITIES | LS | | | ( 95) |
| RECREATION | LS | | | ( 404) |
| SUBTOTAL | | | | 7,744 |
| CONTINGENCY (5%) | | | | 387 |
| TOTAL CONTRACT COST | | | | 8,131 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 447 |
| TOTAL REQUEST | | | | 8,578 |
| AREA COST FACTOR .86 | | | | |

10. Description of Proposed Construction: Construct 59 duplex family housing units with all necessary supporting facilities including: garages, patios, fencing, utilities, air conditioning, appliances, exterior storage, site preparation, roads, parking, sidewalks, basketball court, playground, tot lots, pavilion, fitness trails, recreational vehicle storage, landscaping, and all other necessary support facilities.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 3BR | 1200 | .83 | 53 | 76 | 4,011,888 |
| JNCO 4BR | 1350 | .83 | 53 | 16 | 950,184 |
| SNCO 4BR | 1450 | .83 | 53 | 26 | 1,658,423 |
| | | | | 118 | 6,620,495 |

11. REQUIREMENT: 602 UN ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Replace Wherry Housing Phase 1. (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Barksdale AFB. All units will meet "whole house" standards and provide a living environment comparable to the off-base civilian community. This is the first of multiple phases to provide adequate housing for base personnel. This project represents the first portion of the Housing Community Plan Phase "A".

CURRENT SITUATION: This initiative replaces Wherry housing units which were declared uninhabitable due to condition and have already been demolished. The result is a shortage of NCO housing on the base. According to the most recent Housing Market Analysis a number of families

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE WHERRY HOUSING PHASE 1 | AWUB945101 |

are unsuitably housed. Investigations determined that these families either live in housing below DoD standards, or in housing meeting DoD standards BUT exceeding their maximum housing allowance.
IMPACT IF NOT PROVIDED: The base will continue to have a shortage of on-base housing which forces families to live in unsuitable off-base housing which exceeds housing allowances and causes financial hardship.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of replacement construction, leasing snd status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost efficient over the life of the project.

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L (AR) 1718 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME BARKSDALE AIR FORCE BASE | b. LOCATION TWO MILES SOUTHEAST OF BOSSIER CITY, LOUISIANA | |
| 5. DATA AS OF JULY 1991 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 -E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 1,036 | 3,670 | 1,006 | 5,712 | 893 | 3,330 | 1,328 | 5,551 |
| 7. PERMANENT PARTY PERSONNEL | 1,036 | 3,670 | 1,006 | 5,712 | 893 | 3,330 | 1,328 | 5,551 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 815 | 2,931 | 347 | 4,093 | 703 | 2,659 | 459 | 3,821 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 138 | 1,124 | 171 | 1,433 | | | | |
| a. INVOLUNTARILY SEPARATED | 4 | 4 | 5 | 13 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 122 | | 122 | | | | |
| c. UNACCEPTABLY HOUSED IN COMMUNITY | 134 | 998 | 166 | 1,298 | | | | |
| 10. VOLUNTARY SEPARATIONS | 8 | 132 | 16 | 156 | 6 | 120 | 22 | 150 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 807 | 2,799 | 331 | 3,937 | 695 | 2,539 | 437 | 3,671 |
| 12. HOUSING ASSETS (a + b) | 684 | 1,636 | 171 | 2,691 | 578 | 1,433 | 174 | 2,185 |
| a. UNDER MILITARY CONTROL | 197 | 316 | | 513 | 105 | 324 | | 429 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 197 | 318 | | 513 | 105 | 324 | | 429 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | | | | | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 487 | 1,520 | 171 | 2,178 | 473 | 1,109 | 174 | 1,756 |
| (1) ACCEPTABLY HOUSED | 476 | 1,485 | 166 | 2,127 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 11 | 35 | 5 | 51 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 123 | 963 | 160 | 1,246 | 117 | 1,106 | 263 | 1,486 |
| 14. PROPOSED PROJECT | | | | | | 118 | | 118 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6-13. BASIC DATA WERE EXTRACTED FROM THE HOUSING MARKET ANALYSIS OF JULY 1991.

ITEM - 14. PROPOSED PROJECT.

CONSTRUCT: 76 THREE BEDROOM UNITS FOR E4-E6
16 FOUR BEDROOM UNITS FOR E4-E6
26 FOUR BEDROOM UNITS FOR E7-E9

DD FORM 1332, NOV 90

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| HANSCOM AIR FORCE BASE, MASSACHUSETTS | AIR FORCE MATERIEL COMMAND | 1.23 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 928 | 882 | 2289 | | | | | | | 4,099 |
| b. End FY 1998 | 844 | 635 | 2228 | | | | | | | 3,707 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 1,075) | |
| b. Inventory Total As Of: (30 SEP 92) | 154,874 |
| c. Authorization Not Yet In Inventory: | 18,900 |
| d. Authorization Requested In This Program: | 5,135 |
| e. Authorization Included In Following Program: (FY 1995) | 2,500 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 26,200 |
| h. Grand Total: | 207,609 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE FAMILY HOUSING | 48 UN | 5,135 | TURN KEY | |
| | | TOTAL: | 5,135 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 711-142 | REPLACE FAMILY HOUSING | 24 UN | 2,500 | TURN KEY | |
| | | TOTAL: | 2,500 | | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: This base hosts the Electronics Systems Division, reaponsible for management, command, control and direction of all electronics associated research and development with the Air Force Materiel Command; the Air Force Geophysics Laboratory conducting and researching terrestrial, atmospheric, and space environments; the Air Force Computer Acquisition Center; and 2 AFRES aerial port squadrons.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HANSCOM AIR FORCE BASE, MASSACHUSETTS | REPLACE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | MXRD930103P1 | 5,135 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FY70 APPROPRIATED FAMILY HSG | UN | 48 | 83,641 | 4,015 |
| SUPPORTING FACILITIES | | | | 619 |
| SITE PREPARATION | LS | | | ( 103) |
| ROADS AND PAVING | LS | | | ( 129) |
| UTILITIES | LS | | | ( 130) |
| LANDSCAPING | LS | | | ( 45) |
| DEMOLITION | LS | | | ( 212) |
| SUBTOTAL | | | | 4,634 |
| CONTINGENCY (5%) | | | | 232 |
| TOTAL CONTRACT COST | | | | 4,866 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 268 |
| TOTAL REQUEST | | | | 5,135 |
| AREA COST FACTOR 1.23 | | | | |

10. Description of Proposed Construction: Demolish 48 units of Scott Circle family housing and replace with the construction of 48 new units.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 2BR | 950 | 1.25 | 53 | 14 | 881,125 |
| JNCO 4BR | 1350 | 1.25 | 53 | 6 | 536,625 |
| SNCO 3BR | 1350 | 1.25 | 53 | 14 | 1,252,125 |
| SNCO 4BR | 1450 | 1.25 | 53 | 14 | 1,344,875 |
| | | | | 48 | 4,014,750 |

11. PROJECT: Replace 48 units of housing in Scott Circle. (Current Mission)
REQUIREMENT: Provide units that comply with the Housing Community Plan. Build units to meet USAF current whole house/whole neighborhood standards.
CURRENT SITUATION: The Scott Circle housing area is considered the least desirable housing on Hanscom. There are no private entryways. As many as three families share a common hallway. The units are deficient in required floor space and lack functional floor plans. The immediate living areas around the units are congested. Many units have only one reserved parking space. There is precious little room to live, and privacy is at a premium. The interior water lines are old and in need of replacement. The electrical system and bathrooms are out dated and need upgrading.
IMPACT IF NOT PROVIDED: Without the replacement of these units, repairs of these units will continue in a costly, piecemeal fashion, with no improvement in the quality of life for the occupants. Military families

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

HANSCOM AIR FORCE BASE, MASSACHUSETTS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE FAMILY HOUSING | MXRD930103P1 |

stationed at Hanscom Air Force Base will be forced to live in unsuitable conditions.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L(AR)1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME HANSCOM AIR FORCE BASE | b. LOCATION TWENTY MILES NORTHWEST OF BOSTON, MASSACHUSETTS | |
| 5. DATA AS OF DECEMBER 1991 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 - E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 1,085 | 930 | 183 | 2,198 | 1,022 | 836 | 126 | 1,984 |
| 7. PERMANENT PARTY PERSONNEL | 1,085 | 930 | 183 | 2,198 | 1,022 | 836 | 126 | 1,984 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 776 | 655 | 27 | 1,460 | 776 | 597 | 19 | 1,392 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 134 | 136 | 16 | 286 | | | | |
| a. INVOLUNTARILY SEPARATED | 10 | 10 | 7 | 27 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 32 | | 32 | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 124 | 94 | 9 | 227 | | | | |
| 10. VOLUNTARY SEPARATIONS | 2 | 3 | | 5 | 2 | 3 | | 5 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 776 | 652 | 27 | 1,455 | 774 | 594 | 19 | 1,387 |
| 12. HOUSING ASSETS (a + b) | 660 | 560 | 19 | 1,239 | 658 | 471 | 4 | 1,133 |
| a. UNDER MILITARY CONTROL | 386 | 472 | | 858 | 402 | 456 | | 858 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 386 | 472 | | 858 | 402 | 456 | | 858 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | | | | | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 274 | 88 | 19 | 381 | 256 | 15 | 4 | 275 |
| (1) ACCEPTABLY HOUSED | 266 | 86 | 16 | 370 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 6 | 2 | 1 | 11 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 116 | 92 | 6 | 216 | 116 | 123 | 15 | 254 |
| 14. PROPOSED PROJECT | | | | | | 48 | | 48 |

15. REMARKS

ITEM 6 - 13. BASIC DATA WERE EXTRACTED FROM THE HOUSING MARKET ANALYSIS OF DECEMBER 1991

ITEM 14. PROPOSED PROJECT
CONSTRUCT: 14 TWO BEDROOM UNITS FOR E4-E6
6 FOUR BEDROOM UNITS FOR E4-E6
14 THREE BEDROOM UNITS FOR E7-E9
14 FOUR BEDROOM UNITS FOR E7-E9

DD FORM 1523, NOV 88

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | AIR TRAINING COMMAND | 0.88 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 1665 | 4111 | 2519 | 82 | 7086 | 93 | 11 | 372 | | 15,939 |
| b. End FY 1998 | 1706 | 4337 | 2747 | 298 | 5052 | 5 | 14 | 756 | 2 | 14,917 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 2,705) | |
| b. Inventory Total As Of: (30 SEP 92) | 346,839 |
| c. Authorization Not Yet In Inventory: | 0 |
| d. Authorization Requested In This Program: | 8,770 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 355,609 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING | 111 UN | 8,770 | TURN KEY | |
| | | TOTAL: | 8,770 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: Air Force Military Training Center which includes Basic Military Training School, Officer Training School, and security police, cryptographic maintenance, recruiting, and social actions courses; Defense Language Institute English Language Center; DoD Military Working Dog Training Agency; and a major Air Force medical center.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LACKLAND AIR FORCE BASE, TEXAS | REPLACE WHERRY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | MPLS944003 | 8,770 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE FAMILY HOUSING | UN | 111 | 56,770 | 6,301 |
| SUPPORTING FACILITIES | | | | 1,616 |
| SITE PREPARATION | LS | | | ( 113) |
| ROADS AND PAVING | LS | | | ( 218) |
| UTILITIES | LS | | | ( 450) |
| LANDSCAPING | LS | | | ( 61) |
| RECREATION | LS | | | ( 34) |
| OTHER (SPECIFY)DEMOLITION | LS | | | ( 740) |
| SUBTOTAL | | | | 7,917 |
| CONTINGENCY (5%) | | | | 396 |
| TOTAL CONTRACT COST | | | | 8,313 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 457 |
| TOTAL REQUEST | | | | 8,770 |
| AREA COST FACTOR .88 | | | | |

10. Description of Proposed Construction: Construct family housing units to include heating, cooling, appliances, garages, patios, and storage. Support facilities include site grading, road systems, sidewalks, curb and gutter, utility distribution system, landscaping, and recreational areas.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 2BR | 950 | .86 | 53 | 2 | 86,602 |
| JNCO 3BR | 1200 | .86 | 53 | 74 | 4,047,504 |
| JNCO 4BR | 1350 | .86 | 53 | 32 | 1,969,056 |
| SNCO 4BR | 1450 | .86 | 53 | 3 | 198,273 |
| | | | | 111 | 6,301,435 |

11. REQUIREMENT: 111 UN ADEQUATE: 0 SUBSTANDARD: 111 UN
PROJECT: Replace 111 family housing units. (Current mission)
REQUIREMENT: Project is required to provide 111 adequate family housing units meeting wholehouse criteria. In addition, this project will provide much needed neighborhood improvements and reduce housing density.
CURRENT SITUATION: These two-story units were built in early 1950 and last renovated in the kitchen, bathroom, and patio areas between 1976 and 1978. These upgrades are now substandard and time-worn. Only routine change of occupancy maintenance and some HVAC repairs have been accomplished. The units are energy inefficient and were constructed with inadequate space. Kitchens are outdated and require complete renovation. Electrical and plumbing systems require replacement to meet current code requirements. These units have served their useful life.
IMPACT IF NOT PROVIDED: Air Force members and their families will

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE WHERRY HOUSING | MPLS944003 |

continue to be housed in unsatisfactory conditions affecting morale, performance, and the retention of quality personnel.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L (AR) 1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME LACKLAND AIR FORCE BASE | b. LOCATION THIRTEEN MILES SOUTHWEST OF SAN ANTONIO, TEXAS | |
| 5. DATA AS OF 31 JANUARY 1990 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3-E1 (c) | TOTAL (d) | OFFICER (e) | E9-E4 (f) | E3-E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 1,763 | 4,004 | 2,690 | 6,457 | 1,911 | 3,609 | 6,119 | 13,639 |
| 7. PERMANENT PARTY PERSONNEL | 1,261 | 3,995 | 1,094 | 6,350 | 1,849 | 3,609 | 6,354 | 11,812 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 830 | 2,789 | 282 | 3,901 | 1,086 | 2,266 | 1,137 | 4,489 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 6 | 126 | 2 | 136 | | | | |
| a. INVOLUNTARILY SEPARATED | 6 | 11 | 2 | 21 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 115 | | 115 | | | | |
| c. UNACCEPTABLY HOUSED IN COMMUNITY | | | | | | | | |
| 10. VOLUNTARY SEPARATIONS | 9 | 88 | 22 | 119 | 12 | 71 | 89 | 172 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 821 | 2,701 | 260 | 3,782 | 1,074 | 2,195 | 1,048 | 4,317 |
| 12. HOUSING ASSETS (a + b) | 756 | 2,493 | 272 | 3,521 | 756 | 2,493 | 272 | 3,521 |
| a. UNDER MILITARY CONTROL | 104 | 621 | | 725 | 104 | 621 | | 725 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 97 | 606 | | 703 | 104 | 621 | | 725 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | 7 | 15 | | 22 | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 652 | 1,872 | 272 | 2,796 | 652 | 1,872 | 272 | 2,796 |
| (1) ACCEPTABLY HOUSED | 631 | 1,801 | 200 | 2,632 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 21 | 71 | 72 | 164 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 65 | 208 | -12 | 261 | 316 | -298 | 776 | 796 |
| 14. PROPOSED PROJECT | | | | | | 111 | | 111 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6-13. BASIC DATA WERE EXTRACTED FROM THE FAMILY HOUSING SURVEY OF JANUARY 1990

ITEM 14. PROPOSED PROJECT.

CONSTRUCT: 2 TWO BEDROOM UNITS FOR E4-E6
74 THREE BEDROOM UNITS FOR E4-E6
32 FOUR BEDROOM UNITS FOR E4-E6
3 FOUR BEDROOM UNIT FOR E7-E9

DD FORM 1332, NOV 88

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| FAIRCHILD AIR FORCE BASE, WASHINGTON | AIR COMBAT COMMAND | 1.00 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 562 | 3570 | 495 | 140 | 372 | 22 | | | | 5,161 |
| b. End FY 1998 | 709 | 3923 | 576 | 140 | 372 | 22 | | | | 5,742 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,060) | |
| b. Inventory Total As Of: (30 SEP 92) | 280,299 |
| c. Authorization Not Yet In Inventory: | 34,960 |
| d. Authorization Requested In This Program: | 184 |
| e. Authorization Included In Following Program: (FY 1995) | 0 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 315,443 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE GENERAL OFFICER HOUSING | 1 UN | 184 | TURN KEY | |
| | | TOTAL: | 184 | | |

9a. Future Projects: Included in the Following Program (FY 1995) NONE

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A bomb wing which includes one B-52 squadron and a combat air rescue detachment with UH-1 helicopters; an Air Mobility Command air refueling group with two KC-135 squadrons; an Air National Guard air refueling wing (KC-135 aircraft); an Air Training Command combat crew training group (survival training school); and an Air Force Space Command satellite control squadron.

| 1. CONPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FAIRCHILD AIR FORCE BASE, WASHINGTON | REPLACE GENERAL OFFICER HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | GJKZ930038 | 184 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE GENERAL OFFICER QUARTERS | UN | 1 | 127,050 | 127 |
| SUPPORTING FACILITIES | | | | 39 |
| SITE PREPARATION | LS | | | ( 4) |
| ROADS AND PAVING | LS | | | ( 7) |
| UTILITIES | LS | | | ( 12) |
| LANDSCAPING | LS | | | ( 2) |
| DEMOLITION & ABESTOS ABATEMENT | LS | | | ( 14) |
| SUBTOTAL | | | | 166 |
| CONTINGENCY (5%) | | | | 8 |
| TOTAL CONTRACT COST | | | | 174 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 10 |
| TOTAL REQUEST | | | | 184 |
| AREA COST FACTOR 1.00 | | | | |

10. Description of Proposed Construction: Replacement of one GOQ unit for the Wing Commander with all necessary support. This project will provide a new building with an attached single car garage, air conditioning, all amenities, and demolition of the existing 1527 squre foot GOQ and garage. Supporting facilities include sitework, utility systems, roads, parking, walkways, and landscaping.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| GOQ 4BR | 2310 | 1.10 | 50 | 1 | 127,050 |
| | | | | 1 | 127,050 |

11. REQUIREMENT: 1 UN ADEQUATE: 0 SUBSTANDARD: 1 UN
PROJECT: Replace General Officer Housing. (Current Mission)
REQUIREMENT: Modern and efficient four bedroom housing appropriate for family living and the entertainment responsibilities of the General Officer Installation Commander.
CURRENT SITUATION: The existing General Officer Quarters was constructed in 1943 from the plans for a farm house. Rooms are extremely small, and traffic flow from one room to another is very inefficient. Several subsequent additions to the facility, while providing for the needs at that time, have only served to further detract from current needs, modern home design, and home use. For example, what was once an exterior porch, is now an interior bedroom with no windows. The dining room was at one time a kitchen, which was long ago relocated to an addition at the rear of the house. The house was constructed on wood stringers over concrete piles. The stringers and some floor joists are badly rotted and weakened,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| FAIRCHILD AIR FORCE BASE, WASHINGTON | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| REPLACE GENERAL OFFICER HOUSING | GJKZ930038 |

a condition believed to exist in many areas of the structure, which indicates that the unit is nearing the end of its useful life. In addition, the plumbing and electrical systems are in dire need of replacement and upgrade to modern standards. The unit is energy inefficient and has no central air conditioning system. The numerous additions and current state of structural and infrastructure deterioration have rendered it impractical and cost prohibitive to renovate. The detached garage also has structural problems and similarly is in need of replacement.

IMPACT IF NOT PROVIDED: The base will continue to have an unsuitable housing unit to support the Wing Commander and family. The condition of the unit will detract from the representational responsibilities of the Commander. Maintenance and repair costs will continue to increase in the effort keep the house habitable and presentable.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L(AR)1716 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME FAIRCHILD AIR FORCE BASE | b. LOCATION TEN MILES WEST OF SPOKANE, WASHINGTON | |
| 5. DATA AS OF 31 JANUARY 1992 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3 - E1 (c) | TOTAL (d) | OFFICER (e) | E9 - E4 (f) | E3 - E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 641 | 28,023 | 859 | 4,302 | 685 | 2,521 | 1,267 | 4,473 |
| 7. PERMANENT PARTY PERSONNEL | 641 | 2,802 | 659 | 4,302 | 545 | 2,487 | 964 | 3,996 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 483 | 2,188 | 263 | 2,934 | 395 | 1,899 | 313 | 2,607 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 19 | 86 | 53 | 158 | | | | |
| a. INVOLUNTARILY SEPARATED | | 9 | 6 | 15 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | | | | | | | |
| c. UNACCEPTABLE HOUSED IN COMMUNITY | 19 | 77 | 47 | 143 | | | | |
| 10. VOLUNTARY SEPARATIONS | 7 | 87 | 9 | 103 | 6 | 75 | 11 | 92 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 478 | 2,101 | 254 | 2,831 | 389 | 1,824 | 302 | 2,515 |
| 12. HOUSING ASSETS (a + b) | 461 | 2,024 | 204 | 2,689 | 464 | 2,026 | 205 | 2,695 |
| a. UNDER MILITARY CONTROL | 184 | 1,236 | 91 | 1,511 | 184 | 1,236 | 91 | 1,511 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 183 | 1,232 | 90 | 1,505 | | | | |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | 1 | 4 | 1 | 6 | | | | |
| (4) INACTIVE | | | | | | | | |
| b. PRIVATE HOUSING | 277 | 788 | 113 | 1,178 | 280 | 790 | 114 | 1,184 |
| (1) ACCEPTABLY HOUSED | 274 | 783 | 111 | 1,168 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 3 | 5 | 2 | 10 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 15 | 77 | 50 | 142 | -75 | -202 | -97 | -180 |
| 14. PROPOSED PROJECT | | | | | 1 | | | 1 |

15. REMARKS

ITEM 6 - 13. BASIC DATA WERE EXTRACTED FROM THE FAMILY HOUSING OF JANUARY 1992.

ITEM 14. PROPOSED PROJECT
PROJECT CONSISTS OF A FOUR BEDROOM GENERAL OFFICER UNIT.

DD FORM 1523, NOV 88

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROGRAM (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. COMMAND | 5. AREA CONST COST INDEX |
|---|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | AIR COMBAT COMMAND | 1.08 |

| 6. PERSONNEL STRENGTH | PERMANENT | | | STUDENTS | | | SUPPORTED | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | TOTAL |
| a. As of 30 SEP 92 | 559 | 3030 | 557 | | | | | | | 4,146 |
| b. End FY 1998 | 546 | 2920 | 574 | | | | | | | 4,040 |

7. INVENTORY DATA ($000)

| | |
|---|---|
| a. Total Acreage: ( 6,610) | |
| b. Inventory Total As Of: (30 SEP 92) | 214,988 |
| c. Authorization Not Yet In Inventory: | 10,750 |
| d. Authorization Requested In This Program: | 10,572 |
| e. Authorization Included In Following Program: (FY 1995) | 10,621 |
| f. Planned In Next Four Program Years: | 0 |
| g. Remaining Deficiency: | 0 |
| h. Grand Total: | 246,931 |

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1994

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING PHASE 1 | 104 UN | 10,572 | TURN KEY | |
| | | TOTAL: | 10,572 | | |

9a. Future Projects: Included in the Following Program (FY 1995)

| | | | | | |
|---|---|---|---|---|---|
| 711-142 | REPLACE WHERRY HOUSING PHASE 2 | 99 UN | 10,621 | TURN KEY | |
| | | TOTAL: | 10,621 | | |

9b. Future Projects: Typical Planned Next Four Years:

10. Mission or Major Functions: A missile wing consisting of one Peacekeeper and three Minuteman intercontinental ballistic missile squadrons which maintain a continuous alert posture, and a combat air rescue detachment with UH-1 helicopters.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| F E WARREN AIR FORCE BASE, WYOMING | REPLACE WHERRY HOUSING PHASE 1 |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-142 | GHLN941009 | 10,572 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PHASE 1 | UN | 104 | 67,416 | 7,011 |
| SUPPORTING FACILITIES | | | | 2,533 |
| SITE PREPARATION | LS | | | ( 145) |
| ROADS AND PAVING | LS | | | ( 776) |
| UTILITIES | LS | | | ( 797) |
| LANDSCAPING | LS | | | ( 246) |
| RECREATION | LS | | | ( 65) |
| OTHER (DEMOLITION) | LS | | | ( 504) |
| SUBTOTAL | | | | 9,544 |
| CONTINGENCY (5%) | | | | 477 |
| TOTAL CONTRACT COST | | | | 10,021 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 551 |
| TOTAL REQUEST | | | | 10,572 |
| AREA COST FACTOR 1.08 | | | | |

10. Description of Proposed Construction: Construct 104 new family housing units with all necessary supporting facilities. Project includes attached garages, energy conservation features, and appliances. Supporting facilities include site preparation, utilities, pavements, communications, parking, landscaping and recreation areas. Asbestos removal and demolition of 104 existing units.

| UNIT TYPE | NET AREA | PROJECT FACTOR | $/ NSF | NO. UNITS | TOTAL COST |
|---|---|---|---|---|---|
| JNCO 3BR | 1200 | 1.06 | 53 | 104 | 7,011,264 |
| | | | | 104 | 7,011,264 |

11. REQUIREMENT: 213 UN ADEQUATE: 0 SUBSTANDARD: 213 UN
PROJECT: Replace Wherry Housing, Phase 1. (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient housing for military members and dependents stationed at F E Warren AFB. Housing will be improved to provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. Construction will meet "whole house" standards. This project completes Phase A of the Housing Community Plan.
CURRENT SITUATION: The existing 210 Wherry family housing units were constructed over 40 years ago. These facilities are so poor that living in them is strictly voluntary and at reduced BAQ rates. They continue in use because off-base housing is extremely limited in this isolated community. When available, off-base housing is very expensive, and frequently little better than the units being replaced by this project. Few adequate affordable houses are available for Junior NCOs. The

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| F E WARREN AIR FORCE BASE, WYOMING | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| REPLACE WHERRY HOUSING PHASE 1 | | GHLN941009 |

existing Wherry housing is deficient in size by an average of 300 square feet per unit. The concrete block cavity walls have one inch rigid board insulation, and the flat concrete roof decks have a minimum of rigid board insulation. The concrete floor slabs and block wall exteriors of many units have extensive structural cracks. Housing density is high, and there is little privacy for occupants using backyards. There are no family rooms, porches, carports, garages, or storage rooms. Electrical systems do not meet current national electric codes. There are no Ground Fault Interupter (GFI) circuits, and the number of outlets is minimal. Furnaces are not installed per current construction codes and the majority require replacing. Bathroom fixtures and finishes are antiquated and in need of total replacement. Kitchens are small with badly deteriorated fixtures and cabinets. Kitchen space is further limited by the presence of washer and dryer equipment. All windows are single glazed, steel frame, and are not energy efficient. The units are drafty, and very difficult to keep warm.

IMPACT IF NOT PROVIDED: The inadequate housing units will continue to be occupied because no other housing is available. Local community housing is almost nonexistent, and the situation is deteriorating. Without this and the subsequent phase of this initiative, repairs of these units will continue out of necessity, in a costly, piecemeal fashion, with no improvement in living quality.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| MILITARY FAMILY HOUSING JUSTIFICATION | 1. DATE OF REPORT (YYMMDD) | 2. FISCAL YEAR 1994 | REPORT CONTROL SYMBOL DD-A&L (AR) 1718 |
|---|---|---|---|
| 3. DOD COMPONENT AIR FORCE | 4. REPORTING INSTALLATION a. NAME FRANCIS E. WARREN AIR FORCE BASE | b. LOCATION ONE MILE NORTHWEST OF CHEYENNE, WYOMING | |
| 5. DATA AS OF FEBRUARY 1992 | | | |

| ANALYSIS OF REQUIREMENTS AND ASSETS | CURRENT | | | | PROJECTED | | | |
|---|---|---|---|---|---|---|---|---|
| | OFFICER (a) | E9-E4 (b) | E3-E1 (c) | TOTAL (d) | OFFICER (e) | E9-E4 (f) | E3-E1 (g) | TOTAL (h) |
| 6. TOTAL PERSONNEL STRENGTH | 635 | 2,346 | 683 | 3,664 | 555 | 2,337 | 678 | 3,570 |
| 7. PERMANENT PARTY PERSONNEL | 635 | 2,346 | 683 | 3,664 | 555 | 2,337 | 678 | 3,570 |
| 8. GROSS FAMILY HOUSING REQUIREMENTS | 436 | 1,692 | 204 | 2,334 | 383 | 1,685 | 202 | 2,270 |
| 9. TOTAL UNACCEPTABLY HOUSED (a + b + c) | 77 | 524 | 31 | 632 | | | | |
| a. INVOLUNTARILY SEPARATED | 5 | 9 | 6 | 20 | | | | |
| b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED | | 111 | | 111 | | | | |
| c. UNACCEPTABLY HOUSED IN COMMUNITY | 72 | 404 | 25 | 501 | | | | |
| 10. VOLUNTARY SEPARATIONS | 10 | 69 | 5 | 105 | 9 | 69 | 5 | 103 |
| 11. EFFECTIVE HOUSING REQUIREMENTS | 426 | 1,603 | 199 | 2,230 | 374 | 1,596 | 197 | 2,167 |
| 12. HOUSING ASSETS (a + b) | 366 | 1,108 | 82 | 1,556 | 296 | 1,009 | 106 | 1,411 |
| a. UNDER MILITARY CONTROL | 114 | 507 | | 621 | 114 | 507 | | 621 |
| (1) HOUSED IN EXISTING DOD OWNED/CONTROLLED | 113 | 506 | | 619 | 114 | 507 | | 621 |
| (2) UNDER CONTRACT/APPROVED | | | | | | | | |
| (3) VACANT | | | | | | | | |
| (4) INACTIVE | 1 | 1 | | 2 | | | | |
| b. PRIVATE HOUSING | 252 | 601 | 82 | 935 | 182 | 502 | 106 | 790 |
| (1) ACCEPTABLY HOUSED | 242 | 577 | 79 | 898 | | | | |
| (2) ACCEPTABLE VACANT RENTAL | 10 | 24 | 3 | 37 | | | | |
| 13. EFFECTIVE HOUSING DEFICIT | 62 | 495 | 117 | 674 | 78 | 587 | 91 | 756 |
| 14. PROPOSED PROJECT | | | | | | 104 | | 104 |

15. REMARKS (SPECIFY ITEM NUMBER)

ITEM 6 – 13. BASIC DATA WERE EXTRACTED FROM THE HOUSING MARKET OF ANALYSIS FEBRUARY 1992.

ITEM 14. PROPOSED PROJECT.

CONSTRUCT: 104 THREE BEDROOM UNITS FOR E4-E6

DD FORM 1523, NOV 90

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| COMISO AS, ITALY | PURCHASE BUILD-LEASE MFH UNITS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 711-221 | EFSA944001 | 20,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PURCHASE BUILD-LEASE MFH UNITS | UN | 460 | 43,913 | 20,200 |
| SUBTOTAL | | | | 20,200 |
| TOTAL CONTRACT COST | | | | 20,200 |
| TOTAL REQUEST | | | | 20,200 |
| AREA COST FACTOR 1.43 | | | | |

10. Description of Proposed Construction: Implement the buy out cost option in accordance with the Build-Lease Agreement, Lease No. ITCO-1219A-8512-10TOOA, for 460 MFH units between Si. A. C. Spa and the United States of America at Comiso AS, Italy.

11. PROJECT: Purchase 460 MFH build-lease units located at Comiso AS, Italy. (Current Mission)

REQUIREMENT: Discontinue the annual 10 year lease payment by purchasing 460 MFH units.

CURRENT SITUATION: Due to the 10 year build-lease contract which started in 1988 between USAFE and the contractor, the Air Force is paying an annual rental fee of $7.2 million. Since the 10 year lease does not expire until 1998, the buy out cost option of $20.2 million is more econimically feasible than to pay the remaining 4 year lease payment of $28.8 million.

IMPACT IF NOT PROVIDED: The Air Force will continue to pay an annual rental fee of $7.2 million until 1998. If the buy out cost option is not implemented ar[illegible] we continue to pay the annual rental fee, this will result in the Air Force paying an additional $8.6 million.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of the buy out cost option and continuing the lease payment. Based on the net present values and benefits of the respective alternatives, the buy out cost option was found to be the most cost effecient.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE, ARKANSAS | CONSTRUCT FAMILY HOUSING SERVICE CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 610-119 | NKAK944001R1 | 980 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONSTRUCT FAMILY HOUSING SERVICE CENTER | LS | | | 572 |
| FAMILY HOUSING MGT OFFICE | SF | 3,568 | 88 | (314) |
| MAINTENANCE FACILITY | SF | 3,538 | 73 | (258) |
| SUPPORTING FACILITIES | | | | 313 |
| SITE IMPROVEMENTS/PAVEMENTS/UTILITIES | LS | | | (214) |
| DEMOLITION | LS | | | ( 22) |
| COMMUNICATION SUPPORT/FIRE DETECTION | LS | | | ( 11) |
| SYSTEMS FURNITURE | LS | | | ( 40) |
| ENERGY CONSERVATION | LS | | | ( 26) |
| SUBTOTAL | | | | 885 |
| CONTINGENCY (5%) | | | | 44 |
| TOTAL CONTRACT COST | | | | 929 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 51 |
| TOTAL REQUEST | | | | 980 |
| AREA COST FACTOR 0.79 | | | | |

10. Description of Proposed Construction: Reinforced concrete foundation & floor slab, masonry walls, sloped roof, all utilities & necessary support. Includes administrative offices, reception area, latrines, storage, & mechanical space. Maintenance shop areas include admin space, locker room, break area, equipment room, latrines, secure equipment parking, service call desk, and supply, bench stock & bulk storage.

11. PROJECT: Construct a family housing management office and maintenance facility. Includes demolition of existing facility. (Current Mission)
REQUIREMENT: An adequate facility for family housing customer service and housing maintenance activities to support 1,535 family housing units.
CURRENT SITUATION: The family housing management office provides service to over 4,640 families and unaccompanied personnel living off-base. They manage the assignment, termination and maintenance of 1,535 on-base family housing units. The existing family housing operations are located in a deteriorated wood structure built in 1959. The housing maintenance functions are in lean-to type structures with disfunctional existing space consisting of a maze of cubbyholes and rooms. Wood floors and walls are weakened by termites. The maintenance facility is also not centrally located.
IMPACT IF NOT PROVIDED: The family housing management and maintenance facilities will continue to deteriorate, exacerbating maintenance and repair costs. Quality of life for Air Force members and their families will continue to be inadequate.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MALMSTROM AIR FORCE BASE, MONTANA | HOUSING MANAGEMENT OFFICE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 610-119 | NZAS939038 | 581 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| HOUSING MANAGEMENT OFFICE | SF | 3,000 | 135 | 405 |
| SUPPORTING FACILITIES | | 1 | | 120 |
| SITE PREPARATION | LS | | | ( 44) |
| PLAYGROUND EQUIPMENT/FENCING | LS | | | ( 5) |
| UTILITIES | LS | | | ( 8) |
| PARKING/SIDEWALKS | LS | | | ( 63) |
| SUBTOTAL | | | | 525 |
| CONTINGENCY (5%) | | | | 26 |
| TOTAL CONTRACT COST | | | | 551 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 30 |
| TOTAL REQUEST | | | | 581 |
| AREA COST FACTOR 1.20 | | | | |

10. Description of Proposed Construction: Reinforced concrete footings, foundation, floor slabs, masonry or reinforced concrete precast wall, standing seam metal roof. Includes parking, sidewalks, landscaping, area lighting, comprehensive interior design, prewired work stations, playground equipment and screen fencing. Includes demolition of existing facility.
Air Conditioning: 10 Tons.

11. PROJECT: Construct a housing management office. (Current Mission)
REQUIREMENT: Provide an adequate, functional facility to support the management, inspection and referral for on-base and off-base housing.
CURRENT SITUATION: The existing housing management office is in a small overcrowded building without adequate parking, children's play area, and space for private discussion. Current facility configuration is inadequate for space allocation and arrangement, and is inaccessible for the handicapped. The facility is also not centrally located. Serves 4,379 military members.
IMPACT IF NOT PROVIDED: The housing management staff will not meet basic management office needs and Air Force members and their families who visit the facility cannot be adequately served.
ADDITIONAL: This project meets the criteria/scope specified in Part II of This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DYESS AIR FORCE BASE, TEXAS | CONSTRUCT HOUSING MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 219-944 | FNWZ910048 | 281 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONSTRUCT HOUSING MAINTENANCE FACILITY | SF | 3,054 | 65 | 199 |
| SUPPORTING FACILITIES | | | | 54 |
| MISC/DEMOLITION | LS | | | ( 54) |
| SUBTOTAL | | | | 253 |
| CONTINGENCY (5%) | | | | 13 |
| TOTAL CONTRACT COST | | | | 266 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 15 |
| TOTAL REQUEST | | | | 281 |
| AREA COST FACTOR 0.92 | | | | |

10. Description of Proposed Construction: Construct a 3,054 SF facility using a steel frame and metal siding on a concrete foundation and slab on grade floor. This building will include interior walls with gypsum wallboard, electrical wiring, flammable and bulk storage areas, utilities, paved parking, and landscaping. Office area will be furnished with lighting and heating. Includes demolition of existing facility.
Air Conditioning: 2 Tons.

11. REQUIREMENT: 3,054 SF ADEQUATE: 0 SUBSTANDARD: 1,280 SF
PROJECT: Construct Housing Maintenance Facility. (Current Mission)
REQUIREMENT: Construction of a new Housing Maintenance Facility is the key to meeting the maintenance and repair requirements of the Dyess AFB housing units. Required areas include: an entrance foyer with a self-help counter, an office area, a bench stock area, a shop area, and indoor bulk material storage. Also required is secure exterior bulk and flammable storage. The convenience of collocating housing maintenance and self-help supplies will encourage housing occupants to be more active in caring for their houses. Also, with the construction of a new facility, operational costs will decrease due to energy savings, and collocation of functional areas.
CURRENT SITUATION: The Housing Maintenance Facility serves 5,335 military members. Housing maintenance is presently performed by contract in office space located in two 30-year old, temporary wood structures which have exceeded their life expectancy. They are energy and functionally inefficient. As a result, maintenance costs are rapidly increasing. One of the 640 SF buildings is used as office space, and the other is used for storage. These unsightly structures are located in the middle of the housing area and will be demolished as a part of this project. Currently,

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| DYESS AIR FORCE BASE, TEXAS | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| CONSTRUCT HOUSING MAINTENANCE FACILITY | | FNWZ910048 |

the self-help store is three miles away from the housing area.
IMPACT IF NOT PROVIDED: A dedicated cost effective facility is required to meet the needs of Air Force Members and their families, as well as to ensure the efficient operations of the Housing Maintenance Facility. Without this new facility, we seriously jeopardize Housing Maintenance operations.
ADDITIONAL: This project meets the criteria and scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LANGLEY AIR FORCE BASE, VIRGINIA | CONSTRUCT HOUSING MANAGEMENT OFFICE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.41 | 610-119 | MUHJ940300 | 452 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONSTRUCT HOUSING MANAGEMENT OFFICE | SF | 4,493 | 74 | 332 |
| SUPPORTING FACILITIES | | | | 76 |
| UTILITIES | LS | | | ( 22) |
| PAVEMENTS | LS | | | ( 17) |
| SITE IMPROVEMENTS | LS | | | ( 37) |
| SUBTOTAL | | | | 408 |
| CONTINGENCY (5%) | | | | 20 |
| TOTAL CONTRACT COST | | | | 428 |
| SUPERVISION, INSPECTION AND OVERHEAD (5.5%) | | | | 24 |
| TOTAL REQUEST | | | | 452 |
| AREA COST FACTOR 0.92 | | | | |

10. Description of Proposed Construction: Construct a 4,493 square foot masonry building. Work consists of site work, fill and relocation of a drainage ditch, slab on grade, brick veneer exterior wall with concrete block back up, and a sloped asphalt shingled roof. Includes all utilities and necessary support.
Air Conditioning: 15 Tons.

11. REQUIREMENT: 4,493 SF ADEQUATE: 0 SUBSTANDARD: 2,200 SF
PROJECT: Construct Housing Management Office. (Current Mission)
REQUIREMENT: Construction of a new Housing Management Office is key to the efficiency of daily operations of this office, and will ensure that personnel have adequate office space. The Langley Housing Management Office provides a vital service to over 6,000 permanent party families, and manages 1,638 MFH units. The task of Military Family Housing management and off-base housing referral services requires a facility that is conducive to an efficient flow of business. The facility will include open and closed offices, a lobby, a conference room, a breakroom, a storage room, a mechanical room, restrooms, and a children's playground area.
CURRENT SITUATION: The existing housing management office does not have adequate space for assigned personnel, and the office layout has many inefficiencies. The office is on the first floor of a 10-story (highrise) housing complex of 90 units. The mechanical system is inadequate and designed to support individual apartments, not a large open area of over 2,200 square feet. Maintenance calls are frequent, causing many interruptions to daily operations. The existing space will be reconfigured and upgraded for a satellite housing office and possibly the Family Support Center.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONSTRUCT HOUSING MANAGEMENT OFFICE | MUHJ940300 |

IMPACT IF NOT PROVIDED: People arriving on the base and seeking housing will be welcomed in a crowded, substandard facility which provides a poor firet impression of their new locality and things to come.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION

Program (In Thousands)
FY 1994 Program $ 53,070
FY 1993 Program $150,000

Purpose and Scope

The Air Force operates over 129,000 family housing units. The average age of housing units in the Air Force inventory is over 31 years. Over 65,000 of these units now require improvements or renovation to meet contemporary living standards during the next decade. Many of these units require major expenditures to repair or replace deteriorated mechanical, electrical, or structural components, and to provide some of the modern amenities found in comparable community housing. The Post Acquisition Construction Program provides this needed revitalization. Each project also includes a significant amount of concurrent maintenance and repair to maximize the project cost effectiveness (average per project is 68%). An integral aspect of design and whole house revitalization construction projects is energy conservation improvements. Through utilization of improved insulation, high efficiency energy conserving mechanical and electrical systems, we improve efficiency and reduce utility costs. We anticipate generating $300K in O&M cost avoidance in FY94 and we anticipate continued demonstration of this cost effectiveness.

The Air Force is the acknowledged DoD leader in developing the "whole house" revitalization concept. Whole house is the combination of needed maintenance and repair together with improvements to bring the unit to contemporary standards. In addition, we are looking beyond the house to the entire housing area in our requirements plan. Our "whole neighborhood" concept includes the development of neighborhood vehicular and pedestrian circulation concepts to consider siting, density, landscaping, parking, playgrounds, recreation area and utilities, in addition to the housing unit itself.

Consistent with Authorization and Appropriation Committees' language in FY 90, the Air Force seeks to maintain funding levels in this account to continue revitalizing our aging homes. Consistent with Appropriation Committees' language in FY 85, the Air Force has gathered data on the post acquisition construction projects and included in this submission detail on past projects for these units and any future work programmed within a three year period.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Program Summary

Authorization is requested for:

(1) Various improvements to existing public quarters, as described on DD Form 1391.

(2) Appropriation of $53,070,000 to fund these projects.

NOTE: Projects within the program are within the statutory limitation of $50,000 per unit adjusted by area cost factor, except as identified by separate DD Form 1391.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS AIR FORCE BASES | POST ACQUISITION CONSTRUCTION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-000 | XXXX9400PAIP | 53,070 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| POST ACQUISITION CONSTRUCTION | | | | 53,070 |
| PROJECTS TO IMPROVE FAMILY HOUSING | UN | 588 | 90,255 | (53,070) |
| SUBTOTAL | | | | 53,070 |
| TOTAL CONTRACT COST | | | | 53,070 |
| TOTAL REQUEST | | | | 53,070 |

10. Description of Proposed Construction: Includes all work necessary to revitalize military family housing by providing: air conditioning, where authorized; modern functional layouts; soundproofing; and utility and site improvements. Energy conservation actions include new and additional insulation, storm windows, solar screens, and more efficient heating and cooling systems. (Continued on next pages.)

11. PROJECT: This request is for appropriation of $53.070 million to accomplish improvements in family housing units. (Current Mission)
REQUIREMENT: To revitalize and improve the livability of older, obsolete family housing units, to conserve energy in these older housing units, and to bring utility systems up to current safety standards.
CURRENT SITUATION: The majority of these housing units were constructed since the late 1940's using various design and construction criteria, with different types of material, installed equipment, appliances, livability, and appearance. Many utility and structural systems were designed and constructed during years of plentiful, inexpensive energy resources. Insulation, storm windows, etc., not previously cost effective, are now wise investments. This FY 1994 program will prolong the useful life of many of our older, less modern units by enhancing livability, reducing operation costs and improving safety aspects.
ADDITIONAL: These projects meet the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" except as noted on the individual DD Form 1391s.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| UNITED STATES | |
| ALASKA | |
| ELMENDORF AFB | |
| IMPROVE FAMILY HOUSING | 8,621 |
| FXSB944002R2 | |
| - Improve 37 duplexes; add attached 2-car garages, arctic entries, and eating areas adjacent to remodeled kitchens. Improve 2 GOQs and convert 5 duplexes to single family residences, add 2-car garages and arctic entries. Work includes utility upgrades, pavements, landscaping, roof repair/replacement, and recreational areas. Convert basement to indoor activity room. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |
| ARIZONA | |
| DAVIS-MONTHAN AFB | |
| IMPROVE SENIOR OFFICER HOUSING | 289 |
| FBNV933014 | |
| - Improve 3 units by upgrading electrical systems, replace floor coverings, renovate kitchens and bathrooms, add privacy walls and covered patios. Renovate both interior and exterior storage areas and reroof as necessary. Restore one carport to original configuration and add master bedroom and bathroom to one unit. Abate asbestos in roof shingles, floor tile and ceilings. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None. | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None. | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| CALIFORNIA | |
| EDWARDS AFB | |
| WHOLE HOUSE RENOVATION AREA C, PH 7 | 5,261 |
| FSPM944501A7 | |
| - Renovate 76 units by replacing wood trim and fascia, interior walls, exterior wooden storage sheds, and bathtubs. Replace exterior stucco coat. Construct gable roofs to replace existing flat roofs. Replace evaporative cooling units and duct work. Repair deteriorated interior utility systems. Provide an addition to units with a space deficiency greater than 100 SF. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |
| TRAVIS AFB | |
| COMMUNITY IMPROVEMENTS, WHERRY | 4,078 |
| XDAT944008P1 | |
| - Replace sanitary sewage service laterals, provide underground storm drainage, alter/widen streets and build new sidewalks, install street lighting, construct additional parking spaces, privacy screening, and detached carports. Provide community parks and tot lots. Plant trees and install underground drip irrigation. | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| COLORADO | |
| USAF ACADEMY | |
| IMPROVE CAPEHART FAMILY HOUSING | 4,685 |
| XQPZ940030 | |
| - Improve 75 Capehart units. Renovate kitchens and bathrooms and add family rooms, bathrooms, privacy fencing, garages, & trash enclosures. Relocate washers & dryers to main level & patios next to the family room/kitchen. Functional layouts will be modified and net square feet increased as required. Repair interior and exterior features and landscape as required. Mitigate radon. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Includes some radon mitigation (average cost, $2,700/unit), some minor roof repairs ($1,400/unit average), and basement leak repairs ($4,500/unit average). | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: No work is programmed for the next three years in these units, although some roof repairs may be identified at a later date. | |
| FLORIDA | |
| ELGIN AUX FIELD 9 (HURLBURT FIELD) | |
| MFH COMMUNITY IMPROVEMENTS | 658 |
| FTEV944001 | |
| - Provide and install prefabricated wood/composite wood and steel playground equipment, retaining curbs, sidewalks, sitting areas, open lawns, and landscape plantings for shade and screening. Includes utilities and all necessary support. | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| IDAHO | |
| MOUNTAIN HOME AFB | |
| IMPROVE FAMILY HOUSING | 4,411 |
| QYZH945003 | |
| - Improve 60 family housing units by renovating kitchens and bathrooms, reconfiguring floor plans, improving interior and exterior finishes, upgrading mechanical and electrical systems, and remodeling garages or carports. Includes asbestos removal. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None. | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None. | |
| ILLINOIS | |
| SCOTT AFB | |
| IMPROVE FAMILY HOUSING | 7,705 |
| VDYD924000 | |
| - Improve 107 appropriated units. Upgrade kitchen/bathrooms, remodel interior, replace windows, install vinylsiding, upgrade/replace mechanical and electrical systems, reconfigure floor plans, add patios, privacy screens, and landscaping. Remove asbestos. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY91 Expand parking, add storage $117K | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| OHIO | |
| WRIGHT-PATTERSON AFB | |
| IMPROVE FAMILY HOUSING | 3,822 |
| ZHTV820016P7 | |
| - Improve 70 Wherry units and 4 SOQs. Work includes new plumbing, electrical, HVAC systems, refinishing interior surfaces, and reconfiguration of functional layout. Improve exterior by installing rear entry steel doors, provide patios, privacy fences, storage sheds and correct drainage. Construct additions to the SOQs to add authorized square footage. Provide radon mitigation. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |
| SOUTH CAROLINA | |
| CHARLESTON AFB | |
| COMMUNITY IMPROVEMENTS PH B | 3,500 |
| DKFX954033 | |
| - Improve housing neighborhood area. Upgrade lighting systems, regrade low-lying areas and install storm drainage, install underground drip irrigation system and construct community parks with open space and recreational facilities. | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None. | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None. | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| VARIOUS AIR FORCE BASES | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| POST AQUISITION CONSTRUCTION | | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| WASHINGTON | |
| MCCHORD AFB | |
| IMPROVE FAMILY HOUSING | 5,731 |
| PQWY924004 | |
| - Improve 70 Capehart units. Enlarge entrance, add family room, reconfigure kitchen, upgrade mechanical and electrical systems. Replace windows, doors, flooring, plumbing, exterior siding, and patios. Add showers and 3/4 baths and expand parking. Provide neighborhood improvement. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY91 Repair roofs $180K; FY91 Repair storage sheds/siding $17K | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POST AQUISITION CONSTRUCTION | N/A |

10. Description of work to be accomplished

| Location and Project | Current Working Estimate ($000) |
|---|---|
| **OVERSEAS** | |
| **AUSTRALIA** | |
| WOOMERA AS | |
| IMPROVE FAMILY HOUSING, PH III | 430 |
| ZGTT944002 | |
| - Improve 6 family housing units. Renovate kitchens and baths; replace HVAC, electrical wiring and fixtures, plumbing and fixtures, doors and windows, ceilings, and weatherize with insulation; repaint interior; landscape yards and install sprinkler system. Includes all utilities and necessary support. (Separate DD Form 1391 attached) | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |
| **GUAM** | |
| ANDERSEN AFB | |
| IMPROVE FAMILY HOUSING | 3,879 |
| AJJY944404R2 | |
| - Improve 36 family housing units. Work includes enlarging the master bedroom, modernizing kitchen and bathrooms, repairing entire plumbing and electrical systems; construction of outside storage, installation of package A/C system, removal of asbestos. Whole neighborhood renovation includes construction (i.e. bus shelters, playgrounds, sidewalks, pavements and utilities). | |
| - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None | |
| - WORK PROGRAMMED FOR NEXT THREE YEARS: None | |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION PROJECTS (over $50,000 per unit)

A separate DD Form 1391 follows for each Post Acquisition Construction project which is over $50,000 per unit (multiplied by the Area Cost Factor).

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELMENDORF AIR FORCE BASE, ALASKA | IMPROVE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-143 | FXSB944002R2 | 8,621 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING | UN | 81 | 87,542 | 7,091 |
| SUPPORTING FACILITIES | | | | 880 |
| UTILITIES | LS | | | ( 124) |
| LANDSCAPING AND PLAYGROUNDS | LS | | | ( 109) |
| PAVEMENTS/SIDEWALKS/BIKE PATHS | LS | | | ( 446) |
| ASBESTOS ABATEMENT | UN | 90 | 2,000 | ( 180) |
| DEMOLITION | UN | 7 | 3,000 | ( 21) |
| SUBTOTAL | | | | 7,971 |
| CONTINGENCY (5%) | | | | 399 |
| TOTAL CONTRACT COST | | | | 8,370 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 251 |
| TOTAL REQUEST | | | | 8,621 |
| MOST EXPENSIVE UNIT $148,930 | | | | |
| AREA COST FACTOR 1.69 | | | | |

10. Description of Proposed Construction: Improve 37 duplexes; add attached 2-car garages, arctic entries, and eating areas adjacent to remodeled kitchens. Improve 2 GOQs and convert 5 duplexes to single family residences, add 2-car garages and arctic entries. Work includes utility upgrades, pavements, landscaping, roof repair/replacement, and recreational areas. Convert basement to indoor activity room.

11. PROJECT: Improve 81 family housing units (including two general officer quarters).
REQUIREMENT: These units must be upgraded to provide AF officers with quarters which meet AF standards for size, safety, maintainability, appearance and comfort. Garages and arctic entries are necessary for protection against the harsh Alaskan environment. Five buildings (10 units) will be converted to 4 bedroom single family units for senior officers. Private yards, landscaping along the new garage side of the quarters, recreational facilities, and underground placement of electric services are needed to complete development of the neighborhood.
CURRENT SITUATION: These housing units were constructed in 1942. The units were built extremely close to narrow through streets, resulting in inadequate space for safe parking. Open vehicular parking for both occupants and guests has been provided in the rear of the units forcing primary entry to these quarters through the kitchen. Besides being the primary entry area, the kitchen lacks sufficient counter and storage space, and an eating area. The dining and living rooms are spacious, but the first floor lacks a powder room. Interior finishes, electric service and plumbing fixtures require upgrading. Exterior utilities are generally adequate. The neighborhood has been upgraded to natural gas service and water/sewer service is reliable. Electric service is overhead.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| IMPROVE FAMILY HOUSING | FXSB944002R2 |

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory quarters with detrimental effects on morale and retention of personnel. These quarters will not provide vehicle protection which is the standard in this environment for all ranks.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: Average estimated replacement cost by the economic analysis for an individual unit is $275,167. The average renovation/improvement cost including asbestos abatement is 31% of replacement cost. This project meets the criteria/scope specified in Part II of Military Handbook, "Facilities Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DAVIS-MONTHAN AIR FORCE BASE, ARIZONA | IMPROVE SENIOR OFFICER HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-143 | FBNV933014 | 289 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE SENIOR OFFICER HOUSING | EA | 3 | 85,000 | 255 |
| SUPPORTING FACILITIES | | | | 13 |
| PRIVACY FENCING | LS | | | ( 11) |
| DRIVEWAYS | LS | | | ( 2) |
| SUBTOTAL | | | | 268 |
| CONTINGENCY (5%) | | | | 13 |
| TOTAL CONTRACT COST | | | | 281 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 8 |
| TOTAL REQUEST | | | | 289 |
| MOST EXPENSIVE UNIT $117,280 | | | | |
| AREA COST FACTOR 0.90 | | | | |

10. Description of Proposed Construction: Improve 3 units by upgrading electrical systems, replace floor coverings, renovate kitchens and bathrooms, add privacy walls and covered patios. Renovate both interior and exterior storage areas and reroof as necessary. Restore one carport to original configuration and add master bedroom and bathroom to one unit. Abate asbestos in roof shinglee, floor tile and ceilings.

11. REQUIREMENT: 3 UN ADEQUATE: 0 SUBSTANDARD: 3 UN
PROJECT: Improve Senior Officer Housing.
REQUIREMENT: Provide modern and efficient 4 bedroom housing appropriate for family living and the representational responsibilities of the installation senior command staff.
CURRENT SITUATION: The existing housing units were built in 1952 and 1957, and do not meet current standards for senior officer housing. These units have never received major improvements and are beginning to show the wear and tear of years of continuous use. Layout, utilities, cabinets and fixtures are all dated, substandard, and in need of replacement. One unit has inadequate space for the authorized grade. All have outdated electrical systems which no longer meet national electrical codes. Insulation is substandard and results in high heat and air conditioning costs. Interior and exterior storage is inadequate. Wholehouse renovation is required to bring the senior officer housing up to current standards of living. This project corresponds with the Senior Officer Quarters project identified in the Housing Community Plan.
IMPACT IF NOT PROVIDED: The base will continue to have unsuitable housing to support senior leadership. As the housing continues to age without upgrade, accelerated deterioration of electrical, plumbing, and other systems can be expected, with increasing and unacceptable maintenance and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| IMPROVE SENIOR OFFICER HOUSING | FBNV933014 |

repair costs to the base. Accelerated deterioration could result in the necessity to replace the units at a greater cost rather than upgrade in the future.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| EDWARDS AIR FORCE BASE, CALIFORNIA | WHOLE HOUSE RENOVATION AREA C, PH 7 |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-121 | FSPM944501A7 | 5,261 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WHOLE HOUSE RENOVATION AREA C,PH 7 | UN | 76 | 62,740 | 4,768 |
| SUPPORTING FACILITIES | | | | 97 |
| LANDSCAPING | LS | | | ( 97) |
| SUBTOTAL | | | | 4,865 |
| CONTINGENCY (5%) | | | | 243 |
| TOTAL CONTRACT COST | | | | 5,108 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 153 |
| TOTAL REQUEST | | | | 5,261 |
| MOST EXPENSIVE UNIT $98,000 | | | | |
| AREA COST FACTOR 1.38 | | | | |

10. Description of Proposed Construction: Renovate 76 units by replacing wood trim and fascia, interior walls, exterior wooden storage sheds, and bathtubs. Replace exterior stucco coat. Construct gable roofs to replace existing flat roofs. Replace evaporative cooling units and duct work. Repair deteriorated interior utility systems. Provide an addition to units with a space deficiency greater than 100 SF.

11. PROJECT: Renovate Wherry family housing units, phase 7.
REQUIREMENT: Provide quality of life improvements to existing housing units in order to meet "whole house" standards. Provide adequate and modern housing units comparable to those available in the local community. Provide efficient and reliable interior utility systems.
CURRENT SITUATION: Due to the harsh desert sun and severe temperature extremes at Edwards AFB, the exterior stucco and wood trim have deteriorated to the point where replacement of the trim and stucco is necessary. The existing flat roofs are leaking severely thus requiring high maintenance. Gable roofs are more energy-efficient, require less maintenance, and are more aesthetically pleasing than flat roofs. The existing evaporative cooling units are old and in need of replacement. Continued operation of these cooling systems is wasting valuable energy dollars. The interior utility systems are experiencing a high failure rate. Simply, the physical condition, general appearance, and quality of life in Area C requires improvement. This is the first "whole house" renovation for these housing units since construction in 1953.
IMPACT IF NOT PROVIDED: These homes will continue to deteriorate, and maintenance will become unmanageable. The exterior appearance of the residences will continue to be an eyesore, lacking in quality and aesthetics. Without the new roofs, water intrusion will get worse and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WHOLE HOUSE RENOVATION AREA C, PH 7 | FSPM944501A7 |

energy will be wasted. The utility systems will become irreparable. Families will be forced to occupy substandard, inadequate housing.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| USAF ACADEMY, COLORADO | IMPROVE CAPEHART FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.46 | 711-111 | XQPZ940030 | 4,685 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE CAPEHART FAMILY HOUSING | UM | 75 | 57,760 | 4,332 |
| SUBTOTAL | | | | 4,332 |
| CONTINGENCY (5%) | | | | 217 |
| TOTAL CONTRACT COST | | | | 4,549 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 136 |
| TOTAL REQUEST | | | | 4,685 |
| MOST EXPENSIVE UNIT $74,595 | | | | |
| AREA COST FACTOR 1.05 | | | | |

10. Description of Proposed Construction: Improve 75 Capehart units. Renovate kitchens and bathrooms and add family rooms, bathrooms, privacy fencing, garages, & trash enclosures. Relocate washers & dryers to main level & patios next to the family room/kitchen. Functional layouts will be modified and net square feet increased as required. Repair interior and exterior features and landscape as required. Mitigate radon.

11. REQUIREMENT: 1,214 UN ADEQUATE: 506 UN SUBSTANDARD: 708 UN
PROJECT: Provides improvements and repairs to 75 Capehart military family housing units. All units will meet "whole house/neighborhood" standards.
REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. It is the eighth phase of a multi-phase program which will renovate a total of 1214 units. 506 units were improved in the first seven phases.
CURRENT SITUATION: These units were constructed in 1959 with kitchens, baths, windows, and siding partially renovated between 1977 and 1983. Units do not meet current DOD standards. Kitchens need modifications to provide adequate storage cabinet and countertop areas. Most units do not have enough bathrooms. Formal/informal dining areas are too small and very few units have family rooms. The units require extensive maintenance and repair on plumbing, heating, and electrical systems. Laundry areas are poorly located in the basement. Landscaping needs to be improved for better drainage and separation of units. Radon mitigation is needed in some units to meet EPA standards. Existing carports do not provide sufficient protection from the elements.
IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsuitable conditions, affecting the morale and retention of quality personnel.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

USAF ACADEMY, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| IMPROVE CAPEHART FAMILY HOUSING | XQPZ940030 |

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Includes some radon mitigation (average cost, $2,700/unit), some minor roof repairs ($1,400/unit average), and basement leak repairs ($4,500/unit average).
WORK PROGRAMMED FOR NEXT THREE YEARS: No work is programmed for the next three years in these units, although some roof repairs may be identified at a later date.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of construction, improvement, leasing, and status quo operation. Based on net present values and benefits of the respective alternatives, preliminary findings indicate improvement to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MOUNTAIN HOME AIR FORCE BASE, IDAHO | IMPROVE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-111 | QYZH945003 | 4,411 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING | EA | 60 | 67,980 | 4,079 |
| SUBTOTAL | | | | 4,079 |
| CONTINGENCY (5%) | | | | 204 |
| TOTAL CONTRACT COST | | | | 4,283 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 128 |
| TOTAL REQUEST | | | | 4,411 |
| MOST EXPENSIVE UNIT $92,100 | | | | |
| AREA COST FACTOR 1.10 | | | | |

10. Description of Proposed Construction: Improve 60 family housing units by renovating kitchens and bathrooms, reconfiguring floor plans, improving interior and exterior finishes, upgrading mechanical and electrical systems, and remodeling garages or carports. Includes asbestos removal.

11. REQUIREMENT: 60 UN ADEQUATE: 0 SUBSTANDARD: 60 UN
PROJECT: Improve Appropriated Housing.
REQUIREMENT: This project is required to provide adequate quarters for military members and their dependents stationed at Mt Home AFB. This project improves 60 units correcting design, construction and age related deficiencies to "whole house" standards. Project includes total renovation of all units, and conversion of selected units from four to three bedrooms.
CURRENT SITUATION: These units were constructed in 1948. All require repair and modernization to meet whole-house guidelines and current housing standards. The units have not had major renovation since construction, and are showing the effects of age and normal wear and tear throughout. Kitchens and bathrooms have outdated fixtures. Heating and air conditioning systems are inadequate and in need of replacement. Electrical systems no longer comply with national electric codes, and light fixtures are antiquated and inadequate. Some of the units have no direct access to backyards...access can only be gained by walking around the house from the front, which severely limits backyard use. The result is extremely cluttered front yards where barbecues and similar outdoor equipment is frequently located. Four to three bedroom conversions are needed to meet current requirements.
IMPACT IF NOT PROVIDED: Units will continue to deteriorate rapidly with

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |
| 3. INSTALLATION AND LOCATION | | |
| MOUNTAIN HOME AIR FORCE BASE, IDAHO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| IMPROVE FAMILY HOUSING | | QYZH945003 |

increasing age, resulting in excessive costs to the Government and inconvenience to residents. Without this project, repair of these units will continue in a costly, piecemeal fashion, with little or no improvement in the quality of life of the residents. Military families will live in inadequate facilities.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: The proposed project should provide adequate housing for another 25 years with no additional major investments other than routine maintenance. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SCOTT AIR FORCE BASE, ILLNOIS | IMPROVE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-143 | VDYD924000 | 7,705 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING | UN | 107 | 66,590 | 7,125 |
| SUBTOTAL | | | | 7,125 |
| CONTINGENCY (5%) | | | | 356 |
| TOTAL CONTRACT COST | | | | 7,481 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 224 |
| TOTAL REQUEST | | | | 7,705 |
| MOST EXPENSIVE UNIT $94,910 | | | | |
| AREA COST FACTOR 1.05 | | | | |

10. Description of Proposed Construction: Improve 107 appropriated units. Upgrade kitchen/bathrooms, remodel interior, replace windows, install vinylsiding, upgrade/replace mechanical and electrical systems, reconfigure floor plans, add patios, privacy screens, and landscaping. Remove asbestos.

11. PROJECT: Improve 107 family housing units.
REQUIREMENT: Provide adequate housing for military members and their families meeting wholehouse standards. This is part one of phase 5 to revitalize 1,448 units; 250 units have been or are in the process of being improved.
CURRENT SITUATION: These units were constructed between 1969 and 1973 and have received no major renovation, other than routine maintenance and repair since construction. Kitchen layout needs reconfiguration, cabinets, countertops, flooring, dishwasher, sink, disposal, and range require replacement. Bathroom commodes, lavatories, tubs, exhaust fans, and fixtures require replacement and half baths require conversion to full baths. Gas-fired furnace has exceeded its life expectancy, electrical wiring does not meet code.
IMPACT IF NOT PROVIDED: Units will continue to deteriorate, exacerbating maintenance and repair costs. Quality of life for Air Force members and their families will continue to be inadequate.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY91 Expand parking, add storage $117K
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". These units are structurally sound and with this project will provide adequate housing

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| SCOTT AIR FORCE BASE, ILLNOIS | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| IMPROVE FAMILY HOUSING | VDYD924000 |

for another 25 years without additional major investments other than routine and cyclical repairs. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WRIGHT-PATTERSON AIR FORCE BASE, OHIO | IMPROVE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-121 | ZHTV820016P7 | 3,822 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING | LS | | | 2,539 |
| WHERRY FAMILY HOUSING | UN | 70 | 30,860 | (2,160) |
| ADD TO & ALTER SENIOR OFFICER HOUSING | UN | 4 | 94,750 | ( 379) |
| SUPPORTING FACILITIES | | | | 995 |
| OFF STREET PARKING | LS | | | ( 379) |
| AREA LIGHTING | LS | | | ( 335) |
| RECREATION | LS | | | ( 281) |
| SUBTOTAL | | | | 3,534 |
| CONTINGENCY (5%) | | | | 177 |
| TOTAL CONTRACT COST | | | | 3,711 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 111 |
| TOTAL REQUEST | | | | 3,822 |
| MOST EXPENSIVE UNIT $151,200 | | | | |
| AREA COST FACTOR 1.00 | | | | |

10. Description of Proposed Construction: Improve 70 Wherry units and 4 SOQs. Work includes new plumbing, electrical, HVAC systems, refinishing interior surfaces, and reconfiguration of functional layout. Improve exterior by installing rear entry steel doors, provide patios, privacy fences, storage sheds and correct drainage. Construct additions to the SOQs to add authorized square footage. Provide radon mitigation.

11. PROJECT: Provide "whole house" improvements to 70 Wherry housing units and 4 Senior Officer Quarters.

REQUIREMENT: Adequate living quarters are required for families of military members assigned to this base. Improvements needed to the Wherry units include installation of rear entry steel doors, patios with screens for occupants privacy, and area improvements to facilitate family recreation, safety and quality of life. Additional living space along with minor reconfiguration and upgrade of utilities in the existing structures are necessary to bring these units up to the livability standards of similar quarters both on and off base. Upgrade of electrical, plumbing and HVAC systems is needed to comply with national building codes and to improve safety, reliability and economy of operation. To meet current family requirements, thirty-one oversized 4/5 bedroom units are being converted to address the base's deficit of 2/3 bedroom units.

CURRENT SITUATION: The Wherry units were constructed in 1950's and have had no major improvements since original construction. Due to exposure to weather conditions and heavy usage the rear entry wooden doors have deteriorated. Because of the high denaity of this developement, the occupants have no outdoor privacy. The SOQs were constructed in 1935 and have only had routine repairs and minor improvements. The wiring and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| IMPROVE FAMILY HOUSING | ZHTV820016P7 |

plumbing consist of original systems in both the Wherry and SOQ units mixed with some newer material added over the years. The existing room layout in these units are cramped and poorly arranged. The SOQs have only 1350 NSF, well below the authorized 1700 NSF. The proposed additional square footage will provide a master bedroom with bath and family room. The "C" type of Wherry housing unit requires additional square footage to reach the authorized space and internal renovation and reconfiguration to meet current housing standards. Accoustical and thermal insulation is also required.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsuitable conditions, affecting morale and the retention of quality experienced personnel. These units will continue to deteriorate past the point of repair, resulting in loss of valuable economic assets to the Air Force.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The SOQ units are eligible for the historic register. An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present value and benefits of the respective alternatives, improvement was found to be the most cost effective over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HCCHORD AIR FORCE BASE, WASHINGTON | IMPROVE FAMILY HOUSING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-111 | PQWY924004 | 5,731 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING | UN | 70 | 75,700 | 5,299 |
| SUBTOTAL | | | | 5,299 |
| CONTINGENCY (5%) | | | | 265 |
| TOTAL CONTRACT COST | | | | 5,564 |
| SUPERVISION, INSPECTION AND OVERHEAD (3%) | | | | 167 |
| TOTAL REQUEST | | | | 5,731 |
| MOST EXPENSIVE UNIT $98,245 | | | | |
| AREA COST FACTOR 1.00 | | | | |

10. Description of Proposed Construction: Improve 70 Capehart units. Enlarge entrance, add family room, reconfigure kitchen, upgrade mechanical and electrical systems. Replace windows, doors, flooring, plumbing, exterior siding, and patios. Add showers and 3/4 baths and expand parking. Provide neighborhood improvement.

11. PROJECT: Improve 70 Capehart units.
REQUIREMENT: To provide adequate housing for military members and their families meeting wholehouse standards. This is part one of Phase 5 to renovate 831 housing units; 509 have been or are under renovation.
CURRENT SITUATION: These units were constructed in 1964 and have received only routine maintenance and repair since construction. Bathroom fixtures need to be replaced, tiling and plumbing repaired, walls refinished. Kitchen counters and cabinets are worn and broken, layout requires reconfiguration, washers and dryers need to be moved out of the kitchen. Windows are single pane; there are no storm doors. Insulation is in poor condition. Exterior siding is deteriorated and beyond maintenance.
IMPACT IF NOT PROVIDED: Units will continue to deteriorate, exacerbating maintenance and repair costs. Quality of life for Air Force members and their families will continue to be inadequate.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY91 Repair roofs $180K; FY91 Repair storage sheds/siding $17K
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". These units are structurally sound and with this project will provide adequate housing for another 25 years without additional major investments other than routine and cyclical repairs. An economic analysis has been prepared

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| MCCHORD AIR FORCE BASE, WASHINGTON | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| IMPROVE FAMILY HOUSING | PQWY924004 |

comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE |
|---|---|---|
| AIR FORCE | (computer generated) | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WOOMERA AIR STATION, AUSTRALIA | IMPROVE FAMILY HOUSING, PH III |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-143 | ZGTT944002 | 430 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| IMPROVE FAMILY HOUSING, PH III | UN | 6 | 54,000 | 324 |
| SUPPORTING FACILITIES | | | | 43 |
| UTILITIES | LS | | | ( 14) |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 9) |
| SUBTOTAL | | | | 367 |
| CONTINGENCY (10%) | | | | 37 |
| TOTAL CONTRACT COST | | | | 404 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 26 |
| TOTAL REQUEST | | | | 430 |
| MOST EXPENSIVE UNIT $68,227 | | | | |
| AREA COST FACTOR 1.55 | | | | |

10. Description of Proposed Construction: Improve 6 family housing units. Renovate kitchens and baths; replace HVAC, electrical wiring and fixtures, plumbing and fixtures, doors and windows, ceilings, and weatherize with insulation; repaint interior; landscape yards and install sprinkler system. Includes all utilities and necessary support.

11. PROJECT: Improve 6 family housing units.
REQUIREMENT: To provide adequate, modern, and safe family housing for military members and their dependents. Provide all needed repairs and improvements under one contract while the entire group of houses is vacant to reduce the cost of the work and to avoid inconveniencing an occupant and the neighbors.
CURRENT SITUATION: Original insulation is 30 years old and thermal protection is inadequate for this harsh desert environment. Original window frames are difficult to operate and are not energy efficient. The existing reverse cycle HVAC systems were designed for use in the climate of Adelaide, South Australia, not the extreme temperatures found in Woomera. During the summer months, the temperature reaches 113 deg F and below 50 deg F in the winter. These units do not provide sufficient heating or cooling. The galvanized gutter system is corroded and leaking. Storm water drainage piping is broken and clogged from the debris flowing through the rotted gutter system.
IMPACT IF NOT PROVIDED: The housing does not satisfy current Air Force Quality of Life Standards. Families are forced to live in facilities that are substandard and not consistent with the quality of today's housing construction. These units will continue to deteriorate at a rapid rate increasing repair and maintenance costs.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

3. INSTALLATION AND LOCATION

WOOMERA AIR STATION, AUSTRALIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| IMPROVE FAMILY HOUSING, PH III | ZGTT944002 |

WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: Woomera is a joint defense community with the Australian Department of Defense. Our homes are integrated into the overall housing area and do not comply with the Woomera Village housing concept. The Australian government has been replacing their modular units with permanent brick construction.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

ADVANCE PLANNING AND DESIGN

Program (In Thousands)
FY 1994 Program $9,901
FY 1993 Program $7,457

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, one time multi-phase design, and housing community plan developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of family housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new or post acquisition construction program.

Program Summary

Authorization is requested for:

(1) Advance planning and design for future year housing programs; and
(2) Appropriation of $9,901,000 to fund this effort as outlined in the following exhibit:

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| AIR FORCE | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS AIR FORCE BASES | FAMILY HOUSING ADVANCE PLANNING AND DESIGN |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 8.87.42 | 711-000 | XXXX94000PAD | 9,901 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FAMILY HOUSING ADVANCE PLANNING AND DESIGN | LS | | | 9,901 |
| SUBTOTAL | | | | 9,901 |
| TOTAL CONTRACT COST | | | | 9,901 |
| TOTAL REQUEST | | | | 9,901 |

10. Description of Proposed Construction: Architect-engineer services, surveys, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Account.

11. PROJECT:

REQUIREMENT: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community plan (HCP) developments; for the preparation of design and specifications of advance plans for future year housing programs in connection with any family housing new or post acquisition construction programs.

IMPACT IF NOT PROVIDED: Housing Community Plans cannot be developed. Advanced planning and design, site surveys, and other Architect-engineer services to support the new construction and post acquisition construction programs cannot be procured, therefore making these programs unexecutable.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

OPERATIONS, UTILITIES AND MAINTENANCE
(Excluding Leasing and Debt)

| Program (In Thousands) |
|---|
| FY 1994 Program $735,625 |
| FY 1993 Program $777,071 |

Purpose and Scope

1. Purpose: This budget request supports must pay operations and utilities expenses, as well as the maintenance and repair of our existing housing inventory at over 130 installations. Funding also provides referral services to members seeking housing in the private sector.

2. Scope:

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level management such as housing office operations, quality assurance evaluators, administrative support, community liaison, and annual service fee paid to the Corporation-Trust Company to provide the required corporate presence in Delaware. United States Air Force Housing, Inc., continues as the entity holding title to Capehart and Wherry real property. Housing referral costs are also included. The housing referral program assists personnel to find quarters in the private sector and implements the Fair Housing Act of 1968.

(2) Services. Provides basic support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal, street cleaning.

(3) Furnishings. Procures household equipment (primarily stoves and refrigerators) and, in limited circumstances, furniture; controls furnishings inventories; maintains and repairs such items.

(4) Miscellaneous. Includes mobile home hookups, leased office and warehouse space supporting family housing, payments to other Federal agencies or foreign governments to operate Permit Housing units occupied by Air Force personnel, and similar costs.

b. Utilities. Includes all utilities serving family housing, purchased and base produced, except telephone.

c. Maintenance. Provides upkeep of family housing real property, as follows:

(1) Maintenance/Repair of Dwellings. Service calls, routine maintenance, repairs and replacement.

(2) Exterior Utilities. Maintenance and repair of water, sewer, electric, heat and gas lines located within family housing areas.

(3) Other Real Property. Upkeep of grounds, roads, parking areas, and other property for the exclusive use of family housing not shown above.

(4) Alteration and Additions. Minor alterations to dwellings or housing support facilities. Larger scope or higher dollar value items are funded in the construction program.

Operations and Maintenance Program Summary - Highlights
Authorization/Appropriation is requested in FY 1994 for $735,625,000. This amount, together with estimated reimbursements of $9,397,000, will fund the FY 1994 Operations and Maintenance program of $745,022,000.

A summary of the funding program for FY 1994 follows ($ in thousands):

| Operations Request | Utilities Request | Maintenance Request | Total Direct Request | Reimbursement | Total Program |
|---|---|---|---|---|---|
| $120,647 | $211,036 | $ 403,942 | $ 735,625 | $ 9,397 | $745,022 |

This request fully considers the effects of actual base closures and proposed overseas force structure draw downs and requests minimum essential resources to provide military families with housing in the private market, through assistance from a housing referral office, or in government housing. The Air Force's FY 1994 Operations and Maintenance program emphasizes the following areas:

* Maintaining the livability of the existing housing inventory worldwide.

* Reducing utility consumption per unit through a program of energy goals which places increased management emphasis on conservation and due to whole house improvement efforts.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

* Funding for government appliances and furniture consistent with cost/benefit studies, the delivery of new housing units which need government supplied appliances and the redistribution of appliances from closure bases.

* Reducing furnishings inventories in accordance with base closure schedules.

* Includes $4.3 million for contract cleaning at overseas locations only. The budgeted amount will allow cleaning of approximately 17,200 units at an average per unit cost of $248.00.

* Continuing the special effort to lower operations and maintenance costs in high cost quarters.

This budget request is for funds needed to meet must pay operations and utilities expenses, as well as the maintenance and repair of our existing housing inventory at over 130 installations. We also provide referral services to members seeking housing in the private sector. The Air Force shares the concerns of the Congress to improve support to military families and to properly maintain the housing inventory. This budget supports a long-range program responding to Congressional desires while considering the current environment of budget restraint.

WORLD WIDE
EXHIBIT FH-1
MAJCOM: ALL

INVENTORY AND O&M COST
(Excludes Leases)

| | | |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Operations ($ in Thousands)

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $128,423 | $120,647 |

The FY 1994 program represents Air Force family housing requirements and was developed using OSD/OMB approved inflation and foreign currency formulation rates. To the extent known, adjustments have been made for actual base closures and proposed overseas force structure draw downs. Each program sub-account is described in detail in the following analysis:

A. Management

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $46,354 | $44,282 |

Reconciliation of Increases and Decreases ($ in Millions)

| | | |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 46.4 |
| 2. | FY 1993 Appropriated Amount | 46.4 |
| 3. | FY 1993 Current Estimate | 46.4 |
| 4. | Price Growth | |
| | a. Inflation (+1.1) | 1.1 |
| 5. | Program Decreases | |
| | a. Decrease reflects a reduction in the number of units supported (-3.2). | - 3.2 |
| 6. | FY 1994 President's Budget Request | $ 44.3 |

Analysis of Changes in Management
The increases for inflation and pay raises for foreign national employees are offset partially by the decrease in units supported at bases projected for closure or force structure reductions.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

B. Services

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $26,633 | $28,183 |

Reconciliation of Increases and Decreases ($ in Millions)

| | | |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 26.6 |
| 2. | FY 1993 Appropriated Amount | 26.6 |
| 3. | FY 1993 Current Estimate | 26.6 |
| 4. | Price Growth | |
| | a. Inflation (+.7) | .7 |
| 5. | Program Increase | 3.9 |
| | a. Program increase due to new EPA requirements (+3.9) | |
| 6. | Program Decrease | |
| | a. Program reflects a reduction in the number of units supported (-3.1) | - 3.1 |
| 7. | FY 1994 President's Budget Request | $ 28.1 |

Analysis of Changes in Services
The FY 1994 budget has remained fairly constant with increases to cover inflation. A reduction has been programmed for projected base closures and overseas force structure reduction. At each installation, new EPA requirements must be met such as landfill restrictions, recycling, and an increase in testing to ensure toxic waste avoidance.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Reconciliation of Increases and Decreases

C. Furnishings

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $45,681 | $43,543 |

| | | ($ in Millions) |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 50.7 |
| 2. | Congressional Adjustment | -5.0 |
| 3. | FY 1993 Appropriated Amount | 45.7 |
| 4. | FY 1993 Current Estimate | 45.7 |
| 5. | Price Growth | |
| | a. Inflation (+1.1) | 1.1 |
| 6. | Program Decreases | |
| | a. Decrease reflects a reduction in the number of units supported (-3.3) | - 3.3 |
| 7. | FY 1994 President's Budget Request | $ 43.5 |

Analysis of Changes in Furnishings
The FY 1994 estimate reflects continued reduction of furnishings and appliances, especially at overseas installations. Increased burden sharing is encouraged to achieve reductions in the dollars required. Also, in some locations, until the size of overseas dependent population is stabilized continued support is required to ensure homes are adequately supplied with appliances and loaner furnishings. In Europe, certain furniture items will continue to be needed. Loaner sets of furniture are issued to military families overseas to let them occupy permanent quarters prior to the arrival of personally owned furniture and to let personnel stay in permanent quarters after furniture is shipped due to a change of station.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

D. Miscellaneous

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $9,755 | $4,639 |

Reconciliation of Increases and Decreases
($ in Millions)

| | | |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 9.7 |
| 2. | FY 1993 Appropriated Amount | 9.7 |
| 3. | FY 1993 Current Estimate | 9.7 |
| 4. | Price Growth | -.8 |
| | a. Inflation (+.1)<br>b. Foreign Currency exchange (-.9) | |
| 5. | Program Decreases | - 5.2 |
| | a. Decrease reflect accommodation change decrease (-.5)<br>b. Foreign Currency exchange price decrease (-.9)<br>c. Decrease reflect a reduction in the number of units supported. (-3.8) | |
| 6. | FY 1994 President's Budge Request | $ 4.6 |

Analysis of Changes in Miscellaneous
The change in accommodation charges is for occupancy of units owned by the United Kingdom and the costs of units supported in Australia. These accommodation costs are incurred in accordance with requirements in host country agreements and are budgeted as "must pay" expenses.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

UTILITIES ($ in Thousands)

| FY 1993 Est Execution | FY 1994 Request |
|---|---|
| $261,052 | $211,036 |

Reconciliation of Increases and Decreases

| | | ($ in Millions) |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 261.0 |
| 2. | FY 1993 Appropriated Amount | 261.0 |
| 3. | FY 1993 Current Estimate | 261.0 |
| 4. | Price Growth | |
| | a. Inflation (+5.5) | 5.5 |
| 5. | Program Decreases | - 55.5 |
| | a. Increased burden sharing Government of Japan (-28.5)<br>b. Decrease reflects a reduction in the number of units supported (-18.5)<br>c. Decrease reflects economies and efficiencies (-8.5) | |
| 6. | FY 1994 President's Budget Request | $ 211.0 |

Analysis of Changes in Utilities

MFH facilities consume approximately one-fifth of Air Force facility energy; therefore, MFH residents and management have shared--and must continue to share--a significant role in the achievement of Air Force energy reduction goals. Since MFH occupants are not billed for their energy consumption, conservation motivation must be rooted in other than financial incentives. The single most effective incentive is command emphasis. Energy projects to install set back thermostats, water heater jacket insulation and insulation of crawl and attic spaces have had good results toward the attainment of Air Force energy conservation goals. It is the overall goal of the Air Force to achieve a one percent per year per square foot reduction in energy consumption in its MFH facilities starting from a baseline of

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

UTILITIES

FY 1985 through FY 1995. We are near reaching this goal and have established another long term goal. It is to reach a 20 percent reduction in energy consumption for Air Force MFH facilities by the year 2000 using FY 85 as the baseline. The funding stream depicted in the following table is consistent with the Air Force goal of reducing energy consumption and costs.

| ENERGY CONSUMPTION | FY 93 | FY 94 |
|---|---|---|
| Electricity (MWH) | 1,859,857 | 1,796,999 |
| Fuel Oil (Bbls) | 401,013 | 395,922 |
| Natural Gas (KCF) | 6,807,387 | 6,469,249 |
| Coal (MBTUs) | 486,671 | 391,671 |
| Purchased Steam (MBTU) | 582,316 | 580,445 |

The Budget request for utilities in FY 1994 includes the costs of electricity, coal, gas, fuel oil, water and sewage treatment. Overall, utility rates are stabilizing. Continued conservation efforts are reducing consumption and costs. The reductions in energy consumption are also due to closures of Bergstrom, Carswell, Chanute, Eaker, England, Mather, Myrtle Beach, Williams and Wurtsmith at the end of FY 93. Additional closures at Grissom, Loring, Lowry and MacDill in FY 94 further reduces energy consumption.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Maintenance ($ in Thousands)

| FY 1993 Est. Execution | FY 1994 Request |
|---|---|
| $387,596 | $403,942 |

Air Force family housing assets have a replacement value of over $15 billion. Sound property management and economies dictate proper preservation and protection of these assets.

Reconciliation of Increases and Decreases

| | | ($ in Millions) |
|---|---|---|
| 1. | FY 1993 President's Budget Request (Amended) | $ 396.9 |
| 2. | Congressional Adjustment | - 9.3 |
| 3. | FY 1993 Appropriated Amount | 387.6 |
| 4. | FY 1993 Current Estimate | 387.6 |
| 5. | Price Growth | |
| | a. Inflation (10.7) | 10.7 |
| 6. | Program Increase | 34.1 |
| | a. Additional turnover maintenance as customers rotate because of accelerated force restructuring (+28.5). | |
| | b. Reflects an increase due to repairs to slow asset deterioration (+5.6). | |
| 7. | Program Decrease | - 28.5 |
| | a. Decrease reflects a reduction in the number of units supported (-13.9). | |
| | b. Decrease due to savings from Whole House Investments (-14.6). | |
| 8. | FY 1994 President's Budget Request | $ 403.9 |

Analysis of Changes in Maintenance Program

FY 1994 maintenance request will not provide any reduction to our continuing backlog of maintenance and repair. Previously limited maintenance funding and a high occupant turnover has accelerated deterioration of the Air Force's aging housing inventory. Continued emphasis on maintenance and repair of dwellings is essential to assure availability of quarters for occupancy.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Limited funding in prior years has resulted in temporary fixes while more permanent initiatives are slipped. Deferring such work has exacerbated the rate of deterioration in our inventory.

The Air Force continues to maintain dwelling units using a whole-house concept. Whole-house combines all requirements into one comprehensive project of which 68 percent is actually maintenance and repair work. Unexpected savings from the overseas lease program and from the increased burden sharing agreements for utility costs at Japanese bases have provided a source of funds to reprogram for dire maintenance requirements. Despite these reprogramming actions, MAJCOMs identified $183M worth of unfunded ready-to-accomplish maintenance projects in FY 93 and another $143M in FY94. The Air Force has minimized all maintenance and repair efforts at closure bases or bases scheduled for withdrawal.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Backlog of Deferred Maintenance

Consistent with Congressional concerns, the Air Force is actively pursuing means to reduce its backlog of maintenance and repair. Our present goal is to reduce our end of year backlog to one year's normal recurring maintenance within the next 10 years.

Through the Air Force's emphasis on whole house revitalization, via our Post Acquisition Improvement Program (PAIP) and replacement construction, we have controlled the load on our maintenance account. PAIP and replacement construction is composed of approximately 68 percent maintenance and repair type work. As shown in the table below, when the limited available maintenance funds are combined with efforts in PAIP and replacement construction, the growth in DMAR is slowed. Additionally, reducing our beginning backlog in FY 90 to account for base closures has significantly lowered our initial backlog.

However, given the reduced funding levels in PAIP and replacement construction and maintenance in FY 94, we project a $151 million increase in the Deferred Maintenance and Repair backlog in FY 1994.

The following chart illustrates the backlog of deferred maintenance ($M).

| Fiscal Year | FY 90 | FY 91 | FY 92 | FY 93 | FY 94 |
|---|---|---|---|---|---|
| Backlog at Beginning of Year* | 1,130 | 798 | 824 | 995 | 1,096 |
| Normal Recurring Maintenance | 415 | 422 | 656 | 590 | 601 |
| Total Requirement | 1,545 | 1,220 | 1,480 | 1,585 | 1,697 |
| Funds Available Maintenance | 315 | 333 | 442 | 388 | 404 |
| 68% of PAIP (P713) and Replacement Construction | 75 | 102 | 96 | 150 | 95 |
| Less Base Closures | 395 | | | | |
| Total Funds Available | 785 | 435 | 538 | 538 | 499 |
| Backlog at End of Year | 760 | 785 | 942 | 1,047 | 1,198 |
| Backlog Reduction (Backlog Growth) | 370 | (25) | (157) | (105) | (151) |

*Includes inflation and asset deterioration from prior year

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $15,000 per unit.

UNITED STATES

| Location | No. of Units | Age of Units | Per Un Cost | Unit (NSF) | Project (NSF) | Total Cost($K) | Improvements/ Non-Routine M&R ($K FY89-93) |
|---|---|---|---|---|---|---|---|
| CALIFORNIA | | | | | | | |
| Vandenberg | 172 | 35 | 18.0 | 1064 | 183008 | 3096.0 | None |

Narrative: This project replaces overhead galvanized water pipes that are corroded and leaking, ruining sheet rock walls/ceilings and light fixtures. The water pipes are full of sediment and flow is severely constricted. In some cases, hot water travels so slowly it is luke warm by the time it reaches the bathroom. The electrical system is a two-prong dated 1960 technology system that is incompatible with today's appliance outlets causing damage to appliances and the system. The 50 Amp services need to be upgraded to safely handle the load placed on electrical systems. This project will add a grounding wire to achieve a 3-prong system. The project is the minimal requirement to provide basic safe water and electricity to the homes.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MONTANA | | | | | | | |
| Malmstrom | 2 | 33-34 | 35.5 | 1289 | 1386 | 65.7 | 0.7 |

Narrative: Work includes all structural, mechanical and architectural work required to correct wet basements, replace foundation walls and floor slabs, replace partition walls, window wells, caulking floor slab perimeter, under floor slab drain system with sump pump, topsoil, and sod replacement for surface drainage. Due to ground surface settlement, foundation walls and floor slabs have heaved and cracked. Every time it rains or snow melts, water seeps in. Wells in one unit have moved enough to require natural gas to be turned off until repairs are made, thus the unit must remain vacant. Without repairs, other units will continue to deteriorate. Malmstrom AFB needs every housing unit available as it has a deficit.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $15,000 per unit.

UNITED STATES

| Location | No. of Units | Age of Units | Per Un Cost | Unit (NSF) | Project (NSF) | Total Cost($K) | Improvements/ Non-Routine M&R ($K FY89-93) |
|---|---|---|---|---|---|---|---|
| TEXAS | | | | | | | |
| Lackland | 4 | 35-43 | 28.5 | 1169 | 4676 | 86.4 | None |

Narrative: These housing units have been out of the inventory for two years. Extensive termite damage has occurred requiring repair before the houses can be used.

OVERSEAS

GERMANY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rhein-Main | 1 | 34 | 91.5 | 1549 | 1549 | 91.5 | None |

Narrative: Project provides utility maintenance and repairs to two SOQs. It was constructed in 1957 and has received no major renovation on the utility system. The electrical system does not meet US or German safety standards. The heating system is antiquated and energy inefficient. The uninsulated water lines are corroded, providing brown water to the occupant. The sewer system is deteriorated and periodically backs up into the basement. The remaining units at this housing complex received utility upgrades between 1980 and 1990. This is the last SOQ requiring this work.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sembach | 18 | 40 | 46.5 | 1398 | 25158 | 837.0 | $135 |

Narrative: Project repairs the heating and electrical systems of these units. Present heat system is inefficient and unit electrical wiring (two-wire) is posing a safety hazard due to deterioration of insulation. Project also repairs kitchens and bathrooms to replace deteriorating plumbing and fixtures, repair plaster walls and floors, and replace water/moisture damaged cabinets. Finally, this project will provide the appropriate level of fire protection to these units.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $15,000 per unit.

OVERSEAS

| Location | No. of Units | Age of Units | Per Un Cost | Unit (NSF) | Project (NSF) | Total Cost($K) | Improvements/ Non-Routine M&R ($K FY89-93) |
|---|---|---|---|---|---|---|---|
| GUAM | | | | | | | |
| Anderson | 200 | 34 | 30.2 | 1150 | 230000 | 6048.0 | None |

Narrative: Project will replace severely deteriorated elastomeric foam roofs with built-up roofs.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JAPAN | | | | | | | |
| Kadena | 68 | 30 | 53.0 | 1078 | 78352 | 3,604.0 | 6,800.0 |

Narrative: Replace interior water piping, bathroom fixtures, wall covering, tile and trim, kitchen cabinets; repair electrical system, mitigate radon, and replace exterior drain pipe brackets. Galvanized iron piping has developed numerous leaks and clogging due to corrosion. Bathrooms and kitchens require renovation due to rusted fixtures, bathtubs, sinks, deteriorated cabinets, and walls/trim. All work needs to be done at same time to avoid unnecessary or redundant costs and to limit disruptions to occupants.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

GENERAL OFFICER HOUSING
(Exceeding $25K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $25,000 for all GFOQs.

UNITED STATES

| LOCATION | Qrts ID | Size (BSF) | Age of Unit | Ops Total | Util Total | ($K) Main Total | ($K) Total O&M | ($K) Unit Cost | Improvements Non-Routine M&R ($K FY89-93) |
|---|---|---|---|---|---|---|---|---|---|
| CALIFORNIA | | | | | | | | | |
| Edwards | 5308 | 2580 | 34 | 17000 | 3000 | 30.0 | 50.0 | 50.0 | None |

Narrative: Repair the roof and fascia of the GOQ by replacing the roof with asphalt shingles and replacing and repainting the fascia boards. Relocate exposed conduit and wiring. Include all work necessary to make this a complete and usable roof.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TEXAS | | | | | | | | | |
| Randolph | 300 | 4442 | 62 | 8000 | 3560 | 49.0 | 60.6 | 60.6 | None |

Narrative: Repair driveway and parking area in front of residence. Correct drainage problems by demolishing existing driveway/curb and rebuild with lime stabilized subgrade, block base, hot mix asphaltic concrete. In addition, new curbs and gutters are necessary. Repair turf damaged in the process. Repair of driveway is required to provide adequate access to the quarters, and to prevent further deterioration of the pavement and curb.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| OVERSEAS | | | | | | | | | |
| GERMANY | | | | | | | | | |
| Rhein-Main | 628B | 1752 | 37 | 1100 | 3400 | 103.3 | 107.8 | 107.8 | None |

Narrative: Project provides utility maintenance and repairs for this GOQ. It was constructed in 1957 and has received no major renovation on the utility system. The electrical system does not meet U.S. or German safety standards. The heating system is antiquated and energy inefficient. The uninsulated water lines are corroded, providing brown water to the occupant. The sewer system is deteriorated and periodically backs up into the basement. The remaining units at this housing complex received utility upgrades between 1980 and 1990. This is the last GOQ requiring this work.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

GENERAL OFFICER QUARTERS
(Exceeding $25K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $25,000 for all GFOQs.

GERMANY

| Location | Qrts ID | Size (NSF) | Age of Unit | Ops Total | Util Total | ($K) Main Total | ($K) Total O&M | ($K) Unit Cost | Improvements Non-Routine M&R ($K FY89-93) |
|---|---|---|---|---|---|---|---|---|---|
| Vogelweh | 1050 | 1900 | 39 | 1100 | 3400 | 27.8 | 225.0 | 32.3 | None |
| | 1051 | 1900 | 39 | 1100 | 3400 | 26.0 | 225.0 | 30.3 | None |
| | 1052 | 1900 | 39 | 1100 | 3400 | 26.0 | 225.0 | 30.3 | None |
| | 1053 | 1900 | 39 | 1100 | 3400 | 26.0 | 225.0 | 30.3 | None |
| | 1054 | 1900 | 39 | 1100 | 3400 | 27.8 | 225.0 | 32.3 | None |
| | 2671 | 1900 | 39 | 1100 | 3400 | 27.8 | 225.0 | 32.3 | None |
| | 2673 | 1900 | 39 | 1100 | 3400 | 27.2 | 225.0 | 31.7 | None |
| | 2675 | 1900 | 39 | 1100 | 3400 | 39.3 | 225.0 | 43.8 | None |
| | 2676 | 1900 | 39 | 1300 | 3700 | 39.1 | 225.0 | 44.1 | None |

Narrative: Project provides for the complete replacement of the roofs of nine GOQs. These 39 year old roofs have become a continual maintenance burden. Repair crews are called out routinely to try to locate and stop small leaks that continue to cause damage to the support structure as well as the interior of the units. These units were programmed for improvement (which included roof replacement) in 1990 however due to the cancellation of the improvement program in Europe, the projects were never accomplished. The Air Force cannot economically wait any longer to repair these roofs.

PRIOR YEAR OUT OF CYCLE REQUESTS

JAPAN

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Kadena | 164 | 4608 | 39 | 5240 | 18483 | 67.0 | 90.7 | 90.7 | 315.2 |

Narrative: In FY 1992 $50,000 worth of operations and maintenance work had been approved for this GOQ. However, the work on the unit was disrupted by a typhoon, increasing the scope of work required in FY 1992 to $90,706. The request from the Air Force to increase the scope of the work was submitted to the appropriate Congressional Committees on 1 September 1992.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Reimbursement Authority

Program (In Thousands)
FY 1994 Program $9,397
FY 1993 Program $8,275

The FY 1994 program is based on FY 1993 estimated execution and considers inflationary/price escalation increases in the cost of rents, utility rates, services, and maintenance and repair work charged to family housing. The increase in anticipated reimbursements is due to members who separate voluntarily being authorized to live in government quarters for up to six months after separation.

The following chart shows the source of receipts for the Family Housing account:

| | FY 1993 | FY 1994 |
|---|---|---|
| Mobile Home Parks/Rent Proceeds, Other | $8,275 | $9,397 |
| Receipts from Sales of Housing Assets | 0 | 0 |
| TOTAL | $8,275 | $9,397 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

LEASING

Program (In Thousands)
FY 1994 Program $118,266
FY 1993 Program $150,800

Purpose and Scope

This program provides for worldwide leasing of privately owned housing and payment of the operation and maintenance of those units. The FY 1994 Authorization request for family housing is summarized as follows:

(1) 9,201 foreign lease points,
(2) 5,800 Section 801 lease points,
(3) 3,333 domestic lease points and
(4) $118,266,000 for appropriation to fund leased units and related expenses as described in the following exhibits.

Reconciliation of Increases and Decreases

| | ($ in Millions) |
|---|---|
| 1. FY 1993 President's Budget Request (Amended) | $ 150.8 |
| 2. FY 1993 Appropriated Amount | 150.8 |
| 3. Program Increases | - |
| 4. FY 1993 Current Estimate | 150.8 |
| 5. Price Growth | |
| a. Inflation (+3.6) | 3.6 |
| 6. Program Decreases | - 36.1 |
| a. Decrease reflects a reduction in overseas leases (-35.3) | |
| b. Decrease reflects reduction in CONUS leases (-.8) | |
| 7. FY 1994 President's Budget Request | $ 118.3 |

Foreign Leasing

Leasing in foreign countries is controlled by Congress. First by the number of lease points authorized, then by the review and approval of contract proposals, and finally by the funds appropriated.

Foreign Build-Lease projects are completed. The Comiso AB 460 unit build lease is proposed for buyout in FY 1994. The Bentwaters 293 unit project was completed and occupied in the 1st quarter FY 1992.

A project to lease 75 existing units at Osan AB, Korea by conversion of 150 unaccompanied to 75 accompanied quarters was completed and occupied last quarter of FY92.

Domestic Leasing

In FY 1984, Congress authorized testing a new leasing program for U.S. installations in P.L. 98-115, Section 801. Subsequently, eight housing projects were completed and occupied: Eielson AFB, AK, 300 units; Hanscom AFB, MA, 163 units; Goodfellow AFB, TX, 200 units; March AFB, CA, 200 units; Travis AFB, CA, 300 units; Ellsworth AFB, SD, 200 units and 828 units; and Hurlburt AFB, FL, 300 units. Status of the other projects awarded is as follows: Cannon AFB, NM, 200 and 150 units, date of full occupancy scheduled for 1st quarter FY 1993; Eielson AFB, AK, 366 units, date of full occupancy scheduled for 4th quarter FY 1993; Andrews AFB and Bolling AFB, 414 units each in a combined project with the Naval District of Washington, date of full occupancy scheduled for 3rd quarter FY 1994.

Congress also authorized leasing of domestic units (10 U.S.C. 2828) on a temporary basis to satisfy critical requirements until a permanent solution can be found or if more economical than construction. In FY 1993, the Air Force requested an extension of 125 domestic leases to satisfy urgent requirements at Onizuka AFB, CA and extension of 60 domestic leases to satisfy urgent requirements at Los Angeles AFB, CA. The Air Force is supporting 12 domestic leased units for personnel assigned to the Armed Forces Radio and Television Service in Los Angeles, CA. Additionally, the Air Force is seeking authority to enter into domestic leases at Moody AFB, GA, 300 units; and Shaw AFB, SC, 250 units; for personnel displaced in association with the move of Air Force units from Homestead AFB, FL due to the destruction caused by Hurricane Andrew.

In FY 1994, the Air Force plans to begin termination of all domestic leases at Onizuka AFB, CA. The Air Force will use the cost savings to operate and maintain housing at Moffett NAS, predominately for Air Force personnel. All leases at Onizuka should be terminated by the 1st quarter of FY 1995. The Air Force requests an extension of 60 domestic leases for Air Force

personnel at Los Angeles AFB; 20 domestic leases for Armed Forces Radio and Television Services personnel at Los Angeles CA; an extension of 12 leased and an increase of 13 leases at Holbrook Radar Bomb Scoring Site, AZ; and an extension of 300 domestic leases at Moody AFB, GA and 250 domestic leases at Shaw AFB, SC.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
ANALYSIS OF LEASED UNITS
(Other than Section 801)
FY 1994

| LOCATION (OAC) | FY 92 | | | FY 93 | | | FY 94 | | |
|---|---|---|---|---|---|---|---|---|---|
| | UNITS AUTH | LEASE MONTHS | COST ($000) | UNITS AUTH | LEASE MONTHS | COST ($000) | UNITS AUTH | LEASE MONTHS | CO ($00 |
| DOMESTIC LEASES | | | | | | | | | |
| Onizuka, CA (83) | 125 | 1,500 | $1,744 | 125 | 1,500 | $1,745 | 67 | 804 | $936 |
| Holbrook, AZ (78) | 12 | 144 | $133 | 12 | 144 | $137 | 25 | 300 | $288 |
| Los Angeles, CA (47) | 60 | 720 | $728 | 60 | 720 | $728 | 60 | 720 | $748 |
| Los Angeles, CA/AFRTS (47) | 0 | 0 | $0 | 10 | 120 | $120 | 20 | 240 | $240 |
| Moody AFB, GE (78) | 0 | 0 | $0 | 300 | 3,600 | $3,600 | 300 | 3,600 | $3,615 |
| Shaw AFB, SC (78) | 0 | 0 | $0 | 250 | 3,000 | $3,000 | 250 | 3,000 | $3,000 |
| Unassigned | 3,136 | | | 2,576 | | | 2,611 | | |
| TOTAL DOMESTIC LEASES | 3,333 | 2,364 | $2,605 | 3,333 | 9,084 | $9,330 | 3,333 | 8,664 | $8,827 |
| FOREIGN LEASES | | | | | | | | | |
| Copenhagen (83) | 4 | 48 | $60 | 4 | 48 | $56 | 4 | 48 | $58 |
| Seychelles (83) | 2 | 24 | $10 | 2 | 24 | $12 | 2 | 24 | $12 |
| Ascension (83) | 1 | 12 | $15 | 1 | 12 | $17 | 1 | 12 | $17 |
| Saipan (83) | 1 | 12 | $14 | 1 | 12 | $14 | 1 | 12 | $14 |
| Alconbury (80) | 250 | 3,000 | $3,190 | 250 | 3,000 | $2,788 | 250 | 3,000 | $2,880 |
| Ankara (80) | 206 | 1,752 | $1,893 | 206 | 1,752 | $1,741 | 206 | 1,752 | $894 |
| Aviano (80) | 83 | 720 | $796 | 210 | 1,596 | $1,511 | 265 | 2,196 | $2,368 |
| Bentwaters (80) | 779 | 9,348 | $9,465 | 779 | 5,532 | $5,503 | 300 | 3,600 | $3,783 |
| Buchschlag (80) | 1 | 12 | $13 | 1 | 12 | $13 | 1 | 12 | $14 |
| Comiso (80) | 460 | 5,520 | $7,381 | 460 | 5,520 | $7,548 | 0 | 0 | $0 |
| Dietzenbach (80) | 108 | 1,296 | $1,204 | 108 | 1,296 | $1,216 | 108 | 1,296 | $1,309 |
| Egelsbach (80) | 52 | 624 | $577 | 52 | 624 | $583 | 52 | 624 | $627 |
| Gellenkirchen (80) | 1 | 12 | $26 | 1 | 12 | $26 | 1 | 12 | $28 |
| Hahn (80) | 300 | 3,600 | $4,065 | 300 | 900 | $837 | 0 | 0 | $0 |
| Izmir (80) | 9 | 108 | $250 | 9 | 108 | $206 | 9 | 108 | $230 |
| Kalkar (80) | 39 | 468 | $1,027 | 39 | 468 | $665 | 39 | 468 | $7** |
| Lakenheath (80) | 1,067 | 12,804 | $9,654 | 1,066 | 12,792 | $9,708 | 1,066 | 12,792 | $10 |
| Nieder-Roden (80) | 140 | 1,680 | $1,978 | 140 | 1,680 | $1,998 | 140 | 1,680 | $2 |
| Oslo (80) | 2 | 24 | $112 | 2 | 24 | $114 | 2 | 24 | $11 |
| Paris (80) | 1 | 12 | $37 | 1 | 12 | $34 | 1 | 12 | $37 |
| Ramstein (80) | 720 | 8,424 | $5,911 | 720 | 6,369 | $6,078 | 691 | 6,360 | $6,616 |
| Rhein Main (80) | 300 | 2,148 | $5,073 | 300 | 3,600 | $5,459 | 300 | 3,600 | $5,902 |
| Rome (80) | 4 | 48 | $80 | 4 | 48 | $80 | 4 | 48 | $80 |
| San Vito (80) | 151 | 1,812 | $3,210 | 151 | 1,812 | $3,026 | 150 | 1,800 | $2,878 |
| Soesterberg (80) | 190 | 2,280 | $1,989 | 190 | 2,280 | $2,078 | 190 | 2,280 | $2,273 |
| Spangdahlem (80) | 500 | 6,000 | $6,062 | 500 | 6,000 | $6,216 | 500 | 6,000 | $6,684 |
| Torrejon (80) | 858 | 10,296 | $14,821 | 858 | 0 | $402 | 0 | 0 | $0 |
| Upper Heyford (80) | 50 | 600 | $1,023 | 50 | 600 | $888 | 50 | 600 | $700 |
| Osan (74) | 276 | 2,862 | $2,476 | 276 | 3,312 | $3,288 | 276 | 3,312 | $3,119 |
| Lajes (65) | 2 | 24 | $12 | 2 | 24 | $12 | 2 | 24 | $12 |
| Bangkok (53) | 7 | 84 | $125 | 7 | 84 | $132 | 7 | 84 | $136 |
| Classified Location (53) | 0 | 0 | 0 | 3 | 36 | $100 | 3 | 36 | $103 |
| Cairo, Egypt (51) | 3 | 36 | $103 | 3 | 36 | $106 | 3 | 36 | $109 |
| Nairobi, Kenya (51) | 2 | 24 | $69 | 2 | 24 | $72 | 2 | 24 | $75 |
| Unassigned | 2,632 | | | 2,503 | | | 4,575 | | |
| Estimated Termation Costs | | | | | | | | | |
| Lajes, Portugal | 330 | | | 330 | | $3,075 | | | |
| H. Oldendorf | 90 | | | 90 | | $585 | | | |
| Bentwaters, Great Britian | 488 | | | 488 | | $1,590 | | | |
| Woodbridge, Great Britian | 300 | | | 300 | | $1,363 | | | |
| Hellenikon, Gr. | 7 | | | 7 | | $267 | | | |
| Decimomannu | 1 | | | 1 | | $25 | | | |
| Torrejon, Spain | 858 | | | 858 | | $15,562 | | | |
| Other Negotiations | | | | | | $12,140 | | | |
| TOTAL FOREIGN LEASES | 9,201 | 75,714 | $82,720 | 9,201 | 59,649 | $97,134 | 9,201 | 51,876 | $53,972 |
| GRAND TOTAL FH-4 | 12,534 | 78,078 | $85,325 | 12,534 | 68,733 | $106,464 | 12,534 | 60,540 | $62,7** |

DD Form 2458-2, JUN 86

Exhibit F.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
ANALYSIS OF HIGH COST LEASED UNITS
(Other than Section 801)
FY 1994

| LOCATION | FY94 TOTAL LEASES Per Country | FY92 HIGH COST UNITS | FY92 HIGH COST Defined | FY92 ACTUAL COST | FY93 HIGH COST UNITS | FY93 HIGH COST Defined | FY93 ACTUAL COST | FY94 HIGH COST UNITS | FY94 HIGH COST Defined | FY94 ACTUAL COST |
|---|---|---|---|---|---|---|---|---|---|---|
| DOMESTIC LEASES | | | | | | | | | | |
| Los Angeles, Ca | | 15 | 12,000 | 189 | 15 | 12,000 | 193 | 15 | 12,000 | 194 |
| Onizuka, Ca | | 125 | to | 1,744 | 125 | to | 1,745 | 67 | to | 936 |
| None over Domestic Cap | | None | 14,000 | N/A | None | 14,000 | N/A | None | 14,000 | N/A |
| Sub-Total Domestic | 722 | 140 | | 1,933 | 140 | | 1,938 | 82 | | 1,130 |
| FOREIGN LEASES | | | | | | | | | | |
| *Ankara, Turkey | 215 | 1 | | 5,338 | 60,000 | 1 | 2,968 | 68,000 | 1 | 1,814 | 70,584 |
| *Geilenkirchen, Germany | 1,832 | 1 | | 27,285 | 26,000 | 1 | 25,590 | 26,000 | 1 | 26,076 | 30,000 |
| *Izmir, Turkey | 215 | 1 | | 5,338 | 26,000 | 1 | 2,968 | 26,000 | 1 | 1,814 | 27,000 |
| *Izmir, Turkey | 215 | 1 | | 5,338 | 51,000 | 1 | 2,968 | 49,000 | 1 | 1,814 | 50,000 |
| *Izmir, Turkey | 215 | 1 | | 5,338 | 55,000 | 1 | 2,968 | 58,000 | 1 | 1,814 | 60,000 |
| *Oslo, Norway | 2 | 1 | | 25,578 | 67,000 | 1 | 23,685 | 67,000 | 1 | 23,318 | 69,546 |
| *Oslo, Norway | 2 | 1 | | 25,578 | 55,000 | 1 | 23,685 | 55,000 | 1 | 23,318 | 58,000 |
| *Paris, France | 1 | 1 | | 26,457 | 37,000 | 1 | 24,392 | 37,000 | 1 | 25,028 | 38,000 |
| **Egypt – 3 Units | N/A | N/A | | N/A | 103,000 | N/A | N/A | 109,000 | N/A | N/A | 109,000 |
| **Kenya – 2 Units | N/A | N/A | | N/A | 69,000 | N/A | N/A | 75,000 | N/A | N/A | 75,000 |
| **Thailand – 7 Units | N/A | N/A | | N/A | 172,000 | N/A | N/A | 132,000 | N/A | N/A | 136,356 |
| Classified Location–3 Units | N/A | N/A | | N/A | 0 | N/A | N/A | 100,000 | N/A | N/A | 103,300 |
| Sub-Total Foreign | | 8 | | 721,000 | 8 | | 802,000 | 8 | | 826,786 |
| GRAND TOTAL FH-4A | | 148 | N/A | 722,933 | 148 | N/A | 803,938 | 90 | N/A | 827,916 |

Exhibit FH-4A

The HIGH COST domestic leases range between $12k and $14k per year. The domestic lease cost cap is $14k per year.

* The adjusted cost cap for overseas leases is determined by multiplying $20k times the FY 88 exchange rate divided by the FY 94 exchange rate. Leases exceeding this cap ere defined as HIGH COST and are counted against the number of high cost leases allowed. Air Force is allocated ten HIGH COST Foreign Lease slots.

** State Department pool leases do not count against the total number of high cost leases allowed.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
SECTION 801 FAMILY HOUSING SUMMARY
(Dollars in Thousands)
FY 1994

| LOCATION | NO. OF UNITS | FY OF INITIAL AUTH | DATE OF AWARD | DATE OF FULL OCCUP | DATE OF FULL OCCUP | FY92 COSTS | FY93 UNITS | FY93 COSTS | FY94 UNITS | FY94 COSTS |
|---|---|---|---|---|---|---|---|---|---|---|
| Bolling AFB DC | 414 | FY90 | SEP 91 | DEC 93 | DEC 93 | $0 | 314 | $2,406 | 414 | $5,408 |
| Hanscom AFB, MA | 163 | FY84 | SEP 85 | OCT 87 | OCT 87 | $2,733 | 163 | $2,733 | 163 | $2,733 |
| Goodfellow AFB, TX | 200 | FY86 | SEP 86 | JAN 88 | JAN 88 | $1,861 | 200 | $1,923 | 200 | $1,970 |
| Andrews AFB MD | 414 | FY90 | SEP 91 | DEC 93 | DEC 93 | $0 | 314 | $2,406 | 414 | $5,408 |
| Hurlburt AFB FL | 300 | FY90 | JUN 90 | JUL 92 | JUL 92 | $1,932 | 300 | $2,842 | 300 | $3,014 |
| March AFB, CA | 200 | FY86 | NOV 87 | NOV 88 | NOV 88 | $1,946 | 200 | $2,021 | 200 | $2,088 |
| Travis AFB, CA | 300 | FY88 | SEP 89 | AUG 91 | AUG 91 | $3,891 | 300 | $4,114 | 300 | $4,249 |
| Elelson AFB, AK | 300 | FY84 | JAN 85 | JUL 86 | JUL 86 | $4,638 | 300 | $4,638 | 300 | $5,079 |
| Elelson AFB, AK | 366 | FY91 | SEP 91 | SEP 94 | SEP 94 | $0 | 0 | $704 | 366 | $4,201 |
| Ellsworth AFB (2), SD | 828 | FY88 | AUG 89 | JUN 91 | JUN 91 | $8,650 | 828 | $10,090 | 828 | $10,379 |
| Ellsworth AFB, SD | 200 | FY88 | JUN 89 | JUL 90 | JUL 90 | $2,437 | 200 | $2,437 | 200 | $2,507 |
| Cannon AFB, NM | 350 | FY88 | JUN 91 | DEC 92 | DEC 92 | $3,541 | 350 | $3,541 | 350 | $3,632 |
| SIOH Estimate/Maintenance | | | | | | $494 | | $4,482 | | $4,800 |
| ANNUAL REQUIREMENT | 4,035 | N/A | N/A | N/A | N/A | $32,123 | 3,469 | $44,336 | 4,035 | $55,467 |
| Unused Lease Points | 1,765 | | | | | $0 | 2,331 | $0 | 1,765 | $0 |
| GRAND TOTAL FH-5 | 5,800 | N/A | N/A | N/A | N/A | 32,123 | 5,800 | 44,336 | 5,800 | 55,467 |

Exhibit FH-5

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

DEBT PAYMENT

Program (in Thousands)
FY 1994 Program $21
FY 1993 Program $70

Purpose and Scope

The Debt Payment program continues in FY 1994 in name only, as the last of the Capehart and Wherry mortgages were liquidated in FY 1989.

This program includes payment of Servicemen's Mortgage Insurance Premiums to FHA for mortgages assumed by active military personnel prior to FY 1980. These payments continue to decline to lower levels in FY 1994.

Program Summary

Authorization is requested for the appropriation of $21,000 as follows:

| ($ In Thousands) | FY 1993 ESTIMATE | FY 1994 ESTIMATE |
|---|---|---|
| Servicemen's Mortgage Insurance Premiums | 70 | 21 |
| TOTAL OBLIGATING AUTHORITY (TOA) | 70 | 21 |
| Principal Payment | | |
| Capehart | 0 | 0 |
| Wherry | 0 | 0 |
| Subtotal | 0 | 0 |
| TOTAL REQUIREMENTS (BUDGET AUTHORITY PLUS APPROPRIATION): | 70 | 21 |

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1994 BUDGET REQUEST

Servicemen's Mortgage Insurance Premiums

Servicemen's Mortgage Insurance Premiums, Section 124, Public Law 560, 83rd Congress, The Housing Act of 1954, aids in providing homes for members of the Armed Forces of the United States and their families through a system of FHA mortgage insurance especially designed to assist such members in financing the construction or purchase of homes.

This program was discontinued through Public Law 93-130 (Military Construction Appropriation Act, 1980) which allowed coverage only on existing mortgages covered prior to FY 1980. The amount needed to continue funding premiums on mortgages existing prior to FY 1980 continues to decrease. The program for FY 1993 and FY 1994 is as follows:

| Fiscal Year | Number | Average Payment/YR | Amount($000) |
|---|---|---|---|
| 1993 | 380 | 184 | 70 |
| 1994 | 115 | 182 | 21 |

# FY 1994
# BUDGET ESTIMATES
# *AIR NATIONAL GUARD*

# FY 1994
# MILITARY CONSTRUCTION
# PROGRAM

Justification Data Submitted to Congress
April 1993

DEPARTMENT OF THE AIR FORCE
AIR NATIONAL GUARD
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994

TABLE OF CONTENTS


| | |
|---|---|
| SUMMARY PROJECT LIST | i - x |
| NEW MISSION vs CURRENT MISSION | I - VI |
| SECTION I BUDGET APPENDIX EXTRACT | |
| Language | a-i |
| Special Program Considerations | a-ii - a-iii |
| Program and Financing Schedule | a-iv - a-v |
| Object Classification Schedule FY 1994 | a-vi |
| SECTION II INSTALLATION AND PROJECT JUSTIFICATION DATA | |
| DD FORM 1390s and 1391s | b-1 - b-356 |

SUMMARY PROJECT LIST
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM - FY 1994

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Alabama | Abston ANG Station | | |
| | Communications and Electronics Training Facility | 693 | b - 3 |
| | Birmingham Municipal Airport (ANG) | | |
| | Aircraft Maintenance Hangar | 5,500 | b - 7 |
| | Fuel Cell Dock | 4,400 | b - 9 |
| | Dannelly Field Air National Guard | | |
| | Vehicle Maintenance Complex | 1,750 | b - 14 |
| | Sub-total Alabama | 12,343 | |
| Alaska | Kulis Air National Guard Base | | |
| | Replace Underground Fuel Storage Tanks | 1,100 | b - 18 |
| | Sub-total Alaska | 1,100 | |
| Arizona | Tucson International Airport | | |
| | Replace Underground Fuel Storage Tanks | 440 | b - 22 |
| | Add to and Alter Communications Facility | 700 | b - 24 |
| | Sub-total Arizona | 1,140 | |
| Arkansas | Ft Smith Municipal Airport ANG | | |
| | Aircraft Corrosion Control Facility | 1,100 | b - 28 |
| | Little Rock Air Force Base | | |
| | Operations Facility | 3,750 | b - 33 |
| | Sub-total Arkansas | 4,850 | |
| California | Fresno Air Terminal (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 490 | b - 38 |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| California (Continued) | Ontario International Airport (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 310 | b - 348 |
| | Sub-total California | 800 | |
| Colorado | Buckley Air National Guard Base | | |
| | F-16 Weapons Release Shop | 1,300 | b - 44 |
| | Sub-total Colorado | 1,300 | |
| Connecticut | Bradley International Airport (ANG) | | |
| | Add to and Alter Base Civil Engineer Facility | 510 | b - 48 |
| | Sub-total Connecticut | 510 | |
| Delaware | New Castle County Airport | | |
| | Replace Underground Fuel Storage Tanks | 890 | b - 52 |
| | Communications Facility | 900 | b - 54 |
| | Sub-total Delaware | 1,790 | |
| Florida | Jacksonville IAP (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 1,150 | b - 58 |
| | Sub-total Florida | 1,150 | |
| Georgia | Dobbins Air Force Base | | |
| | Petroleum Operations Complex | 600 | b - 62 |
| | Replace Underground Fuel Storage Tanks | 1,150 | b - 64 |
| | Lewis B Wilson Airport (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 340 | b - 348 |
| | McCollum ANG Station | | |
| | Replace Underground Fuel Storage Tanks | 315 | b - 348 |
| | Savannah ANG Communications Station | | |
| | Replace Underground Fuel Storage Tanks | 330 | b - 348 |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Georgia (Continued) | Savannah International Airport | | |
| | Replace Underground Fuel Storage Tanks | 315 | b - 348 |
| | Fire Detection and Suppression Systems | 1,650 | b - 74 |
| | Refueling Vehicle Parking and Operations Complex | 990 | b - 76 |
| | Sub-total Georgia | 5,690 | |
| Hawaii | Hickam Air Force Base | | |
| | Fuel System Maintenance and Corrosion Control Facility | 5,300 | b - 80 |
| | Sub-total Hawaii | 5,300 | |
| Idaho | Boise Air Terminal (Gowen Field) | | |
| | Fire Station and AGE Facility | 1,750 | b - 85 |
| | Sub-total Idaho | 1,750 | |
| Illinois | Capital Municipal Airport ANG | | |
| | Alter Storm Drainage Disposal | 500 | b - 90 |
| | Greater Peoria Airport ANG | | |
| | Add to and Alter F-16 Aircraft Avionics Shop | 840 | b - 94 |
| | Sub-total Illinois | 1,340 | |
| Indiana | Fort Wayne Municipal Airport | | |
| | Replace Underground Fuel Storage Tanks | 1,350 | b - 98 |
| | Hulman Regional Airport | | |
| | Replace Underground Fuel Storage Tanks | 950 | b - 102 |
| | Sub-total Indiana | 2,300 | |
| Iowa | Des Moines Internat'l Airport ANG | | |
| | Replace Underground Fuel Storage Tanks | 880 | b - 106 |
| | Add to and Alter Dining and Medical Training Facility | 1,800 | b - 108 |
| | Sub-total Iowa | 2,680 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Kansas | Forbes Field ANG | | |
| | Replace Underground Fuel Storage Tanks | 1,400 | b - 113 |
| | McConnell Air Force Base | | |
| | Alter Medical Training and Telecom | 890 | b - 117 |
| | Sub-total Kansas | 2,290 | |
| Louisiana | Hammond ANG Communications Station | | |
| | Replace Underground Fuel Storage Tanks | 350 | b - 349 |
| | New Orleans NAS ANG | | |
| | Replace Underground Fuel Storage Tanks | 350 | b - 349 |
| | Sub-total Louisiana | 700 | |
| Maryland | Andrews Air Force Base | | |
| | Replace Underground Fuel Storage Tanks | 890 | b - 125 |
| | Add to and Alter Avionics and ECM Pod Facility | 1,100 | b - 127 |
| | Martin State Airport (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 1,000 | b - 131 |
| | Sub-total Maryland | 2,990 | |
| Michigan | Alpena County Regional Airport | | |
| | Upgrade Water Distribution System | 1,400 | b - 135 |
| | Selfridge Air National Guard Base | | |
| | Replace Underground Fuel Storage Tanks | 710 | b - 139 |
| | W K Kellogg Regional Airport | | |
| | Add to and Alter Fuel Cell and Corrosion Control Facility | 1,100 | b - 143 |
| | Sub-total Michigan | 3,210 | |
| Minnesota | Duluth International Airport (ANG) | | |
| | Replace Underground Fuel Storage Tanks | 1,000 | b - 147 |
| | Sub-total Minnesota | 1,000 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Mississippi | Gulfport-Biloxi Regional Airport | | |
| | Replace Underground Fuel Storage Tanks | 335 | b - 349 |
| | Upgrade Electrical Distribution System | 850 | b - 151 |
| | Allen C Thompson Field | | |
| | Replace Underground Fuel Storage Tanks | 730 | b - 156 |
| | Sub-total Mississippi | 1,915 | |
| Missouri | Jefferson Barracks ANG Station | | |
| | Alter Communications Electronic Training Facilities | 2,800 | b - 160 |
| | Upgrade Dining Hall | 720 | b - 163 |
| | Rosecrans Memorial Airport | | |
| | Replace Underground Fuel Storage Tanks | 1,250 | b - 167 |
| | Sub-total Missouri | 4,770 | |
| Montana | Great Falls IAP ANG | | |
| | Replace Underground Fuel Storage Tanks | 400 | b - 349 |
| | Medical Training and Dining Hall | 2,900 | b - 171 |
| | Sub-total Montana | 3,300 | |
| Nebraska | Lincoln Municipal Airport | | |
| | Fire Station | 1,850 | b - 175 |
| | Sub-total Nebraska | 1,850 | |
| Nevada | Reno Cannon International Airport | | |
| | Aircraft Arresting Systems | 1,830 | b - 179 |
| | Replace Underground Fuel Storage Tanks | 460 | b - 181 |
| | Sub-total Nevada | 2,290 | |
| New Hampshire | Pease Air National Guard Base | | |
| | Upgrade KC-135 Hydrant Refueling System | 5,100 | b - 185 |
| | Sub-total New Hampshire | 5,100 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| New Jersey | Atlantic City International Airport | | |
| | Replace Underground Fuel Storage Tanks | 1,900 | b - 190 |
| | Fire Station | 1,350 | b - 192 |
| | Sub-total New Jersey | 3,250 | |
| New Mexico | Kirtland Air Force Base | | |
| | Power Check Pad with Sound Suppressor | 800 | b - 196 |
| | Alter Operational Training Facility | 390 | b - 349 |
| | Alter Maintenance Shops | 345 | b - 350 |
| | Sub-total New Mexico | 1,535 | |
| New York | Hancock Field ANG | | |
| | Fire Station | 1,350 | b - 201 |
| | Niagara Falls International Airport | | |
| | Alter KC-135 Operations Facilities | 1,650 | b - 205 |
| | Schenectady Airport ANG | | |
| | Replace Underground Fuel Storage Tanks | 1,050 | b - 209 |
| | Stewart International Airport | | |
| | Industrial Waste Holding Pond | 320 | b - 350 |
| | Sub-total New York | 4,370 | |
| North Dakota | Hector International Airport | | |
| | Upgrade Storm Drainage | 400 | b - 350 |
| | Sub-total North Dakota | 400 | |
| Oklahoma | Tulsa International Airport | | |
| | Add to and Alter Fire Station | 460 | b - 217 |
| | Will Rogers World Airport | | |
| | Mobility Equipment Storage Warehouse | 950 | b - 221 |
| | Composite Support Facility | 3,900 | b - 223 |
| | Sub-total Oklahoma | 5,310 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Oregon | Portland International Airport | | |
| | Add to and Alter Fire Station | 500 | b - 228 |
| | Drainage Improvements | 600 | b - 230 |
| | Sub-total Oregon | 1,100 | |
| Pennsylvania | Ft Indiantown Gap ANG Station | | |
| | Civil Engineering Maintenance Shops | 850 | b - 234 |
| | Sub-total Pennsylvania | 850 | |
| Rhode Island | Coventry ANG Station | | |
| | Replace Underground Fuel Storage Tanks | 840 | b - 238 |
| | North Smithfield ANG Station | | |
| | Replace Underground Fuel Storage Tanks | 550 | b - 242 |
| | Quonset State Airport ANG | | |
| | Replace Underground Fuel Storage Tanks | 890 | b - 246 |
| | Base Engineer Maintenance Facility | 2,750 | b - 248 |
| | Sub-total Rhode Island | 5,030 | |
| South Carolina | McEntire Air National Guard Base | | |
| | Replace Underground Fuel Storage Tanks | 1,750 | b - 253 |
| | Upgrade Airfield Lighting and Pavement | 4,200 | b - 255 |
| | Sub-total South Carolina | 5,950 | |
| South Dakota | Joe Foss Field ANG | | |
| | Alter Composite Operations and Training Facility | 350 | b - 350 |
| | Add to and Alter Fuel Systems Maintenance/Corrosion Dock | 1,700 | b - 260 |
| | Sub-total South Dakota | 2,050 | |
| Tennessee | Alcoa Air National Guard Station | | |
| | Add to and Alter Communication Electronics Training Facility | 1,300 | b - 265 |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Tennessee (Continued) | McGhee Tyson Airport | | |
| | Replace Underground Fuel Storage Tanks | 1,100 | b - 269 |
| | PMEC Administrative Support Facility | 2,200 | b - 271 |
| | Nashville Metro Airport | | |
| | Replace Underground Fuel Storage Tanks | 1,000 | b - 276 |
| | Sub-total Tennessee | 5,600 | |
| Texas | Ellington Field | | |
| | Replace Underground Fuel Storage Tanks | 1,600 | b - 280 |
| | Kelly Air Force Base | | |
| | Replace Underground Fuel Storage Tanks | 560 | b - 284 |
| | Sub-total Texas | 2,160 | |
| Utah | Salt Lake City Internat'l Apt ANG | | |
| | Add to and Alter Communication and Electronics Training | 850 | b - 288 |
| | Alter Composite Support Facility | 950 | b - 290 |
| | Site Restoration | 2,000 | b - 292 |
| | Sub-total Utah | 3,800 | |
| Vermont | Burlington International Airport | | |
| | Fire Station | 1,500 | b - 297 |
| | Sub-total Vermont | 1,500 | |
| Virginia | Camp Pendleton Military Reservation | | |
| | Base Engineer Maintenance and Storage Facility | 1,150 | b - 301 |
| | Richmond IAP (Byrd Field) | | |
| | Replace Underground Fuel Storage Tanks | 1,100 | b - 306 |
| | Add to and Alter Fuel Systems Maintenance Dock | 1,300 | b - 308 |
| | Sub-total Virginia | 3,550 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| Washington | Bellingham Municipal Airport ANG | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 420 | b - 313 |
| | Camp Murray ANG Station | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 380 | b - 350 |
| | Four Lakes Communications Station | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 360 | b - 351 |
| | Paine Field ANG Station | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 320 | b - 351 |
| | Seattle Air National Guard Base | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 320 | b - 351 |
| | Sub-total Washington | 1,800 | |
| West Virginia | EWVRA Shepherd Field ANG | | |
| | Add to Aerial Port Training | | |
| | Facility | 390 | b - 351 |
| | Yeager Airport ANG | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 370 | b - 351 |
| | Sub-total West Virginia | 760 | |
| Wisconsin | General Mitchell Int'l Airport | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 600 | b - 329 |
| | Truax Field | | |
| | Fire Station | 1,400 | b - 333 |
| | Volk Field Air National Guard Base | | |
| | Replace Underground Fuel | | |
| | Storage Tanks | 510 | b - 337 |
| | Sub-total Wisconsin | 2,510 | |
| | SUB-TOTAL INSIDE THE UNITED STATES | 124,983 | |

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH/APPROP AMOUNT | DD FORM 1391 PAGE NO. |
|---|---|---|---|
| | OUTSIDE THE UNITED STATES | | |
| Guam | Andersen Air Force Base | | |
| | Base Supplies and Equipment | | |
| | Warehouse | 400 | b - 352 |
| | Sub-total Guam | 400 | |
| Puerto Rico | Puerto Rico IAP | | |
| | Alter Fuel Systems Maintenance Facility | 750 | b - 343 |
| | Add to and Alter F-16 Avionics Shop | 320 | b - 352 |
| | Upgrade F-16 Aircraft Parking Ramp Security System | 2,000 | b - 346 |
| | Sub-total Puerto Rico | 3,070 | |
| | SUB-TOTAL OUTSIDE THE UNITED STATES | 3,470 | |
| | SUB-TOTAL - ALL BASES | 128,453 | |
| | PLANNING AND DESIGN | 9,900 | b - 353 |
| | UNSPECIFIED MINOR CONSTRUCTION | 4,000 | b - 355 |
| | SUB-TOTAL - SUPPORT COSTS | 13,900 | |
| | GRAND TOTAL | 142,353 | |

x

SUMMARY PROJECT LIST
AIR NATIONAL GUARD
NEW MISSION VERSUS CURRENT MISSION - FY 1994

| LOCATION | PROJECT | COST ($000) | NEW/ CURRENT |
|---|---|---|---|
| Abston ANGS AL | Communications and Electronics Training Facility | 700 | C |
| Birmingham MAP AL | Fuel Cell Dock | 4,400 | N |
| | Aircraft Maintenance Hangar | 5,500 | N |
| Dannelly Field ANG AL | Vehicle Maintenance Complex | 1,750 | C |
| Kulis ANGB AK | Replace Underground Fuel Storage Tanks | 1,100 | C |
| Tucson IAP AZ | Add to and Alter Communications Facility | 700 | C |
| | Replace Underground Fuel Storage Tanks | 440 | C |
| Ft Smith MAP AR | Aircraft Corrosion Control Facility | 1,100 | C |
| Little Rock AFB AR | Operations Facility | 3,750 | C |
| Fresno ANGB CA | Replace Underground Fuel Storage Tanks | 490 | C |
| Ontario IAP CA | Replace Underground Fuel Storage Tanks | 310 | C |
| Buckley ANGB CO | F-16 Weapons Release Shop | 1,300 | N |
| Bradley IAP CT | Add to and Alter Base Civil Engineer Facility | 510 | C |
| New Castle County Apt DE | Communications Facility | 900 | C |
| | Replace Underground Fuel Storage Tanks | 890 | C |
| Jacksonville IAP FL | Replace Underground Fuel Storage Tanks | 1,150 | C |
| Dobbins AFB GA | Petroleum Operations Complex | 600 | C |
| | Replace Underground Fuel Storage Tanks | 1,150 | C |
| Lewis B Wilson Apt GA | Replace Underground Fuel Storage Tanks | 340 | C |

| LOCATION | PROJECT | COST ($000) | CURRENT |
|---|---|---|---|
| McCollum ANGS GA | Replace Underground Fuel Storage Tanks | 315 | C |
| Savannah ANG Comm Station GA | Replace Underground Fuel Storage Tanks | 330 | C |
| Savannah IAP GA | Replace Underground Fuel Storage Tanks | 315 | C |
| | Fire Detection and Suppression Systems | 1,650 | C |
| | Refueling Vehicle Parking and Operations Complex | 990 | C |
| Hickam AFB HI | Fuel System Maintenance and Corrosion Control Facility | 5,300 | N |
| Boise Air Terminal (Gowen Field) ID | Fire Station and AGE Facility | 1,750 | C |
| Capital MAP IL | Alter Storm Drainage Disposal | 500 | C |
| Greater Peoria Apt IL | Add to and Alter F-16 Aircraft Avionics Shop | 840 | N |
| Fort Wayne IAP IN | Replace Underground Fuel Storage Tanks | 1,350 | C |
| Hulman Regional Apt IN | Replace Underground Fuel Storage Tanks | 950 | C |
| Des Moines IAP IA | Add to and Alter Dining and Medical Training Facility | 1,800 | C |
| | Replace Underground Fuel Storage Tanks | 880 | C |
| Forbes Field KS | Replace Underground Fuel Storage Tanks | 1,400 | C |
| McConnell AFB KS | Alter Medical Training and Telecom | 890 | C |
| Hammond Communications Station LA | Replace Underground Fuel Storage Tanks | 350 | C |
| New Orleans LA | Replace Underground Fuel Storage Tanks | 350 | C |

| LOCATION | PROJECT | COST ($000) | NEW/ CURRENT |
|---|---|---|---|
| Andrews AFB MD | Replace Underground Fuel Storage Tanks | 890 | C |
| | Add to and Alter Avionics and ECM Pod Facility | 1,100 | N |
| Martin State Apt MD | Replace Underground Fuel Storage Tanks | 1,000 | C |
| Alpena County Regional Apt MI | Upgrade Water Distribution System | 1,400 | C |
| Selfridge ANGB MI | Replace Underground Fuel Storage Tanks | 710 | C |
| W K Kellogg Reg Apt MI | Add to and Alter Fuel Cell and Corrosion Control Facility | 1,100 | N |
| Duluth IAP MN | Replace Underground Fuel Storage Tanks | 1,000 | C |
| Gulfport-Biloxi MS | Upgrade Electrical Distribution System | 850 | C |
| | Replace Underground Fuel Storage Tanks | 335 | C |
| Allen C Thompson Fld MS | Replace Underground Fuel Storage Tanks | 730 | C |
| Jefferson Barracks ANGS MO | Alter Communications Electronic Training Facilities | 2,800 | N |
| | Upgrade Dining Hall | 720 | C |
| Rosecrans Memorial Apt MO | Replace Underground Fuel Storage Tanks | 1,250 | C |
| Great Falls IAP MT | Medical Training and Dining Hall | 2,900 | C |
| | Replace Underground Fuel Storage Tanks | 400 | C |
| Lincoln MAP NE | Fire Station | 1,850 | N |
| Reno Cannon IAP NV | Aircraft Arresting Systems | 1,750 | C |
| | Replace Underground Fuel Storage Tanks | 460 | C |
| Pease ANGB NH | Upgrade KC-135 Hydrant Refueling System | 5,100 | C |

| LOCATION | PROJECT | COST ($000) | CURRENT |
|---|---|---|---|
| Atlantic City Apt NJ | Fire Station | 1,350 | C |
| | Replace Underground Fuel Storage Tanks | 1,900 | C |
| Kirtland AFB NM | Alter Operational Training Facility | 390 | C |
| | Power Check Pad with Sound Suppressor | 800 | N |
| | Alter Maintenance Shops | 345 | N |
| Hancock Field NY | Fire Station | 1,350 | C |
| Niagara Falls IAP NY | Alter KC-135 Operations Facilities | 1,650 | N |
| Schenectady Apt NY | Replace Underground Fuel Storage Tanks | 1,050 | C |
| Stewart IAP NY | Industrial Waste Holding Pond | 320 | C |
| Hector IAP ND | Upgrade Storm Drainage | 400 | C |
| Tulsa IAP OK | Add to and Alter Fire Station | 460 | C |
| Will Rogers World Apt OK | Mobility Equipment Storage Warehouse | 950 | C |
| | Composite Support Facility | 3,900 | C |
| Portland IAP OR | Add to and Alter Fire Station | 500 | C |
| | Drainage Improvements | 600 | C |
| Ft Indiantown Gap ANGS PA | Civil Engineering Maintenance Shops | 850 | C |
| Coventry ANGS RI | Replace Underground Fuel Storage Tanks | 840 | C |
| North Smithfield ANGS RI | Replace Underground Fuel Storage Tanks | 550 | C |
| Quonset State Apt RI | Base Engineer Maintenance Facility | 2,750 | C |
| | Replace Underground Fuel Storage Tanks | 890 | C |
| McEntire ANGB SC | Upgrade Airfield Lighting and Pavement | 4,200 | C |
| | Replace Underground Fuel Storage Tanks | 1,750 | C |

| LOCATION | PROJECT | COST ($000) | CURRENT |
|---|---|---|---|
| Joe Foss Field SD | Alter Composite Operations and Training Facility | 350 | C |
| | Add to and Alter Fuel Systems Maintenance/Corrosion Dock | 1,700 | N |
| Alcoa ANGS TN | Add to and Alter Communication Electronics Training Facility | 1,300 | N |
| McGhee Tyson Apt TN | PMEC Administrative Support Facility | 2,200 | C |
| | Replace Underground Fuel Storage Tanks | 1,100 | C |
| Nashville Metro Apt TN | Replace Underground Fuel Storage Tanks | 1,000 | C |
| Ellington Field TX | Replace Underground Fuel Storage Tanks | 1,600 | C |
| Kelly AFB TX | Replace Underground Fuel Storage Tanks | 560 | C |
| Salt Lake City IAP UT | Alter Composite Support Facility | 950 | C |
| | Add to and Alter Communication and Electronics Training | 850 | N |
| | Site Restoration | 2,000 | C |
| Burlington IAP VT | Fire Station | 1,500 | C |
| Camp Pendleton Military Reser VA | Base Engineer Maintenance and Storage Facility | 1,150 | C |
| Richmond IAP (Byrd Field) VA | Replace Underground Fuel Storage Tanks | 1,100 | C |
| | Add to and Alter Fuel Systems Maintenance Dock | 1,300 | N |
| Bellingham MAP WA | Replace Underground Fuel Storage Tanks | 420 | C |
| Camp Murray ANGS WA | Replace Underground Fuel Storage Tanks | 380 | C |
| Four Lakes Comm Station WA | Replace Underground Fuel Storage Tanks | 360 | C |
| Paine Field ANGS WA | Replace Underground Fuel Storage Tanks | 320 | C |

| LOCATION | PROJECT | COST ($000) | NEW/ CURRENT |
|---|---|---|---|
| Seattle ANGB WA | Replace Underground Fuel Storage Tanks | 320 | C |
| EWVRA Shepherd Field WV | Add to Aerial Port Training Facility | 390 | C |
| Yeager Airport WV | Replace Underground Fuel Storage Tanks | 370 | C |
| General Mitchell IAP WI | Replace Underground Fuel Storage Tanks | 600 | C |
| Truax Field WI | Fire Station | 1,400 | C |
| Volk Field ANGB WI | Replace Underground Fuel Storage Tanks | 510 | C |
| Andersen AFB GU | Base Supplies and Equipment Warehouse | 400 | C |
| Puerto Rico IAP PR | Alter Fuel Systems Maintenance Facility | 750 | N |
| | Add to and Alter F-16 Avionics Shop | 320 | N |
| | Upgrade F-16 Aircraft Parking Ramp Security System | 2,000 | N |
| | PLANNING AND DESIGN | 9,900 | |
| | UNSPECIFIED MINOR CONSTRUCTION | 4,000 | |
| | TOTAL NEW MISSION | 35,205 | |
| | TOTAL CURRENT MISSION | 93,248 | |
| | GRAND TOTAL - FY 1994 REQUEST | 142,353 | |

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994

APPROPRIATION

MILITARY CONSTRUCTION, AIR NATIONAL GUARD

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SECTION 1

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For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air National Guard, and contribution therefore, as authorized by Chapter 133 of Title 10, United States Code, and Military Construction Authorization Acts, $142,353 ($287,559) to remain available until September 30, 1998. (September 30, 1997)

() Individual FY 92 Appropriation Language

## SPECIAL PROGRAM CONSIDERATIONS

### Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

### Energy Conservation

Military construction projects specifically for energy conservation at installations have been developed, reviewed, and selected with prioritization by energy savings versus investment cost. Projects include improvements to existing facilities and utility systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

### Flood Plain Management and Wet Land Protection

Proposed land acquisitions, disposals, and installation construction projects have been planned to allow the proposed management of flood plains and the protection of wet lands by avoiding long and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss of degradation of wet lands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11900.

### Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 90-400, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

### Preservation of Historical Sites and Structures

Facilities included in this program do not directly or indirectly affect a district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on DD Form 1391.

### Environmental Protection

In accordance with Section 102(2) (c) of the Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

### Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources. Actual economic analysis have been or will be prepared for all projects over $2,000,000.

SPECIAL PROGRAM CONSIDERATIONS

(continued)

Reserve Manpower Potential

The reserve manpower potential to meet and maintain authorized strengths of all reserve flying/non-flying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other Services having reserve flying/non-flying units in these areas, that the number of units of the reserve components of the Armed Forces presently located in those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those reserve units.

Potential Use of Vacant Schools and Other State and Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Construction Criteria Manual

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

Mil. Con., Air National Guard
Program and Financing (in Thousands of dollars)

| Identification code 57-3830-0-1-051 | | Obligations | | |
|---|---|---|---|---|
| | | 1992 actual | 1993 est. | 1994 est. |
| | Program by activities: | | | |
| | Direct program: | | | |
| 00 0101 | Major construction | 263,137 | 304,256 | 149,401 |
| 00 0201 | Minor construction | 5,000 | 6,262 | 2,946 |
| 00 0301 | Planning | 19,930 | 23,748 | 10,683 |
| 10 0001 | Total | 288,067 | 334,266 | 163,030 |
| | Financing: | | | |
| 17.0001 | Recovery of prior year obligations | -4,630 | | |
| | Unobligated balance available, start of year: | | | |
| 21.4002 | For completion of prior year budget plans | -241,457 | -174,953 | -146,446 |
| 21.4009 | Reprograming from/to prior year budget plans | | | |
| | Unobligated balance available, end of year: | | | |
| 24.4002 | For completion of prior year budget plans | 174,953 | 146,446 | 125,769 |
| 25.0001 | Unobligated balance expiring | 327 | | |
| 40.0001 | Budget authority (Appropriation) | 217,260 | 305,759 | 142,353 |
| | Relation of obligations to outlays: | | | |
| 71.0001 | Obligations incurred | 288,067 | 334,266 | 163,030 |
| 72.4001 | Obligated balance, start of year | 175,375 | 233,276 | 302,907 |
| 74.4001 | Obligated balance, end of year | -233,276 | -302,907 | -184,926 |
| 77.0001 | Adjustments in expired accounts (net) | -366 | | |
| 78 0001 | Adjustments in unexpired accounts | -4,630 | | |
| 90.0001 | Outlays (net) | 225,171 | 264,635 | 281,011 |

Mil. Con., Air National Guard
Program and Financing (in Thousands of dollars)

| Identification code 57-3830-0-1-051 | | Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) | | |
|---|---|---|---|---|
| | | 1992 actual | 1993 est. | 1994 est. |
| | Program by activities: | | | |
| | Direct program: | | | |
| 00.0101 | Major construction | 192,060 | 283,059 | 128,453 |
| 00.0201 | Minor construction | 5,000 | 5,000 | 4,000 |
| 00.0301 | Planning | 20,200 | 17,700 | 9,900 |
| 10.0001 | Total | 217,260 | 305,759 | 142,353 |
| | Financing: | | | |
| 17.0001 | Recovery of prior year obligations | | | |
| | Unobligated balance available, start of year: | | | |
| 21.4002 | For completion of prior year budget plans | | | |
| 21.4009 | Reprograming from/to prior year budget plans | -327 | | |
| | Unobligated balance available, end of year: | | | |
| 24.4002 | For completion of prior year budget plans | | | |
| 25.0001 | Unobligated balance expiring | 327 | | |
| 40.0001 | Budget authority (Appropriation) | 217,260 | 305,759 | 142,353 |
| | Relation of obligations to outlays: | | | |
| 71.0001 | Obligations incurred | | | |
| 72.4001 | Obligated balance, start of year | | | |
| 74.4001 | Obligated balance, end of year | | | |
| 77.0001 | Adjustments in expired accounts (net) | | | |
| 78.0001 | Adjustments in unexpired accounts | | | |
| 90.0001 | Outlays (net) | | | |

a-v

Mil. Con., Air National Guard
Object Classification (in Thousands of dollars)

| Identification code 57-3830-0-1-051 | | 1992 actual | 1993 est. | 1994 est. |
|---|---|---|---|---|
| | Direct obligations: | | | |
| | Other services: | | | |
| 125.101 | Consulting Services | 503 | | |
| 125.203 | Contracts | 17,165 | 16,335 | 18,651 |
| 132.001 | Land and structures | 263,226 | 309,631 | 135,541 |
| 199.001 | Total Direct obligations | 280,894 | 325,966 | 154,192 |
| | Allocation Accounts | | | |
| | Other services: | | | |
| 325.101 | Consulting Services | 8 | | |
| 325.203 | Contracts | 282 | 300 | 400 |
| 332.001 | Land and structures | 6,883 | 8,000 | 8,438 |
| 399.001 | Total Allocation Accounts | 7,173 | 8,300 | 8,838 |
| 999.901 | Total obligations | 288,067 | 334,266 | 163,030 |
| | Obligations are distributed as follows: | | | |
| | Defense-Military:Army | 605 | 669 | 326 |
| | Defense-Military:Navy | 15,637 | 18,050 | 8,797 |
| | Defense-Military:Air Force | 264,744 | 307,190 | 149,834 |
| | Department of Transportation | 7,081 | 8,357 | |
| | United States Information Agency | | | 4,073 |
| | Total Obligations | 288,067 | 334,266 | 163,030 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ABSTON ANG STATION, ALABAMA

4. AREA CONSTR COST INDEX
0.77

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
Active Duty - Maxwell AFB (2 Miles); Marine Reserve (14 Miles) Gunter Annex Maxwell AFB (13 Miles); Naval Reserve (14 Miles) Air Force Reserve - Maxwell AFB (2 Miles), Army Reserve (14 Miles) Army National Guard (7-14 Miles) 5 Units; Air National Guard (1-7 Miles) 2 Units

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-447 | COMMUNICATIONS AND ELECTRONICS TRAINING FACILITY | 7,000 SF | 693 | JAN 90 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 7 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-447 | COMBAT COMM FACILITIES | 27,500 SF | 3,900 |
| 171-447 | RELOCATE 232 COMBAT COMMUNICATION SQUADRON | 59,800 SF | 7,100 |
| 214-425 | VEHICLES AND AGE MAINTENANCE FACILITY | 17,000 SF | 2,600 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ABSTON ANG STATION, ALABAMA

11. PERSONNEL STRENGTH AS OF 25 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 13 | 1 | 2 | 10 | 112 | 6 | 106 |
| ACTUAL | 11 | 1 | 2 | 8 | 118 | 6 | 112 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 280 | CCS SQ | 112 | 115 |
| 280 | STU FT | 0 | 3 |
| | TOTALS | 112 | 118 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 75 | 60 |
| Vehicle Equivalents | 58 | 40 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | FEB 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ABSTON ANG STATION MONTGOMERY ALABAMA | COMMUNICATIONS AND ELECTRONICS TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-447 | ABAA000320 | S693 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| COMMUNICATIONS AND ELECTRONICS FACILITY | SF | 7,000 | | 555 |
| MOBILITY STORAGE | SF | 2,000 | 55 | ( 110) |
| VEHICLE MAINTENANCE | SF | 2,000 | 80 | ( 160) |
| COMM TRAINING | SF | 3,000 | 95 | ( 285) |
| SUPPORTING FACILITIES | | | | 74 |
| SITE IMPROVEMENTS | LS | | | ( 9) |
| PAVEMENTS | LS | | | ( 20) |
| UTILITIES | LS | | | ( 25) |
| PRE WIRED WORK STATIONS | LS | | | ( 20) |
| SUBTOTAL | | | | 629 |
| CONTINGENCY (5%) | | | | 31 |
| TOTAL CONTRACT COST | | | | 660 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 33 |
| TOTAL REQUEST | | | | 693 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel frame and built-up roof. Interior and exterior utilities and mechanical systems. Fire protection, pavements and support. Dispose of temporary portable building.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 17,474 SF ADEQUATE: 10,474 SF SUBSTANDARD: 0
PROJECT: Communications and Electronics Training Facility (Current Mission).
REQUIREMENT: An adequately sized communications and electronics facility is required to train the troops and to provide space for communications equipment. Functional areas include communications shops, administration space, maintenance, and training space to support the contingency communication function.
CURRENT SITUATION: The unit was located on Maxwell AFB. As a result of new construction on Maxwell AFB and the disposal of numerous WWII facilities, the squadron has been forced to relocate to Abston which is only two miles from Maxwell AFB. At Abston the unit is collocated with another communications unit but shares temporary facilities. The equipment is stored in trucks since there is no room to maintain it. Following completion of the permanent facility, the shared temporary facilities will be returned to the other communications unit.
IMPACT IF NOT PROVIDED: Units will not be able to perform adequate maintenance of equipment, nor provide quality training on communications systems in the current facilities which are not designed to support this type of operation.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ABSTON ANG STATION MONTGOMERY ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| COMMUNICATIONS AND ELECTRONICS TRAINING FACILITY | ABAA000820 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 JAN 12 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 FEB 26 |
| (d) Date Design Complete | 93 SEP 23 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 36 |
| (b) All Other Design Costs | 13 |
| (c) Total | 49 |
| (d) Contract | 49 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>BIRMINGHAM MUNICIPAL AIRPORT (ANG), ALABAMA | | 4. AREA CONSTR COST INDEX<br>0.90 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
9 Army National Guard Armories, 3 Army Reserve, 1 Marine and Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-111 | AIRCRAFT MAINTENANCE HANGAR | 28,000 SF | 5,500 | DEC 91 | SEP 93 |
| 211-179 | FUEL CELL DOCK | 21,100 SF | 4,400 | SEP 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 7 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 113-321 | AIRCRAFT PARKING APRON AND HYDRANT REFUELING SYSTEM | LS | 15,500 |
| 124-135 | ADD TO JET FUEL STORAGE | LS | 5,000 |
| 125-135 | REPLACE DERA USTS | LS | 500 |
| 131-111 | COMMUNICATIONS FACILITY | 8,000 SF | 1,800 |
| 141-753 | ADD TO AND ALTER SQUADRON OPERATIONS FACILITY | 24,000 SF | 850 |
| 171-450 | JOINT MEDICAL TRAINING FACILITY (ANG/ARNG) | 21,300 SF | 2,100 |
| 217-712 | ALTER AIRCRAFT SHOPS | 58,600 SF | 4,400 |
| 219-944 | BASE ENGINEER AND DISASTER PREPAREDNESS FACILITY | 21,700 SF | 3,100 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BIRMINGHAM MUNICIPAL AIRPORT (ANG), ALABAMA

11. PERSONNEL STRENGTH AS OF 13 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 359 | 6 | 45 | 308 | 1,222 | 143 | 1,079 |
| ACTUAL | 356 | 7 | 45 | 304 | 1,228 | 145 | 1,083 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 106 | TRN SQ | 156 | 152 |
| 117 | TRN WG | 68 | 69 |
| 117 | CEG SQ | 124 | 116 |
| 117 | CLM SQ | 423 | 400 |
| 117 | CMN FT | 21 | 21 |
| 117 | MSQ FT | 38 | 40 |
| 117 | MSQ SQ | 45 | 44 |
| 117 | RMS SQ | 120 | 117 |
| 117 | SVS FT | 34 | 29 |
| 117 | RTC SQ | 80 | 72 |
| 117 | THP HP | 56 | 54 |
| 117 | SEP FT | 57 | 53 |
| 117 | STU FT | 0 | 61 |
| | TOTALS | 1,222 | 1,228 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| RF 4C Aircraft | 18 | 22 |
| Support Equipment | 173 | 170 |
| Vehicle Equivalents | 235 | 230 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BIRMINGHAM MUNICIPAL AIRPORT (ANG)<br>ALABAMA | AIRCRAFT MAINTENANCE HANGAR |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 211-111 | BRKR909592 | $5,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT MAINTENANCE HANGAR | SF | 28,000 | 135 | 3,780 |
| SUPPORTING FACILITIES | | | | 1,210 |
| UTILITIES | LS | | | ( 250) |
| PAVEMENTS | LS | | | ( 250) |
| SITE IMPROVEMENTS | LS | | | ( 200) |
| FIRE SUPPRESSION SYSTEM | LS | | | ( 350) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 160) |
| SUBTOTAL | | | | 4,990 |
| CONTINGENCY (5%) | | | | 250 |
| TOTAL CONTRACT COST | | | | 5,240 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 262 |
| TOTAL REQUEST | | | | 5,502 |
| TOTAL REQUEST (ROUNDED) | | | | 5,500 |

10. Description of Proposed Construction: Foundations, floor slabs, steel frame, siding, roof, paved access, fire protection and all necessary utilities and support. Floor drain for aircraft washing. Dispose of Hangar 140 and equipment shed 144 for a total of 37,100 SF.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 28,000 SF ADEQUATE: 0 SUBSTANDARD: 37,100 SF
PROJECT: Aircraft Maintenance Hangar (New Mission).
REQUIREMENT: This project supports the conversion from RF-4C to a new larger body aircraft. The base requires a properly sized and configured hangar to perform maintenance. The hangar must be large enough to totally enclose the aircraft.
CURRENT SITUATION: The new aircraft will not fit into the existing hangar, nor can the hangar be modified to fit new aircraft size. There are no other facilities on base that can be used for this purpose. The site constraints require the demolition of the hangar and storage shed due to limited flightline space, frontage, and clearance to be in compliance with Air Force and FAA airfield clearance criteria.
IMPACT IF NOT PROVIDED: Unable to complete the phased maintenance on schedule or safely. Adverse impact on the unit's training and its capability to maintain mission readiness and operational capability. Unable to maintain the aircraft. Unable to reach full operational capability. The aircraft will have to be flown and maintained at another guard location.
ADDITIONAL: A life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project. The analysis indicates the new construction is the most economical alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | [illegible] 1993 |

3. INSTALLATION AND LOCATION

BIRMINGHAM MUNICIPAL AIRPORT (ANG) ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT MAINTENANCE HANGAR | BRKR909592 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 DEC 17 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 01 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 270 |
| (b) All Other Design Costs | 150 |
| (c) Total | 420 |
| (d) Contract | 420 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BIRMINGHAM AIRPORT (ANG) ALABAMA | FUEL CELL DOCK |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-179 | BRKR919593 | $4,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FUEL CELL DOCK | SF | 21,100 | | 2,793 |
| FUEL SYSTEMS MAINTENANCE DOCK | SF | 19,500 | 135 | ( 2,633) |
| PLASTIC MEDIA STRIPPING SHOP | SF | 1,600 | 100 | ( 160) |
| SUPPORTING FACILITIES | | | | 1,180 |
| UTILITIES | LS | | | ( 230) |
| PAVEMENTS | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| FIRE PROTECTION | LS | | | ( 300) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 200) |
| STORM DRAINAGE | LS | | | ( 200) |
| SUBTOTAL | | | | 3,973 |
| CONTINGENCY (5%) | | | | 199 |
| TOTAL CONTRACT COST | | | | 4,172 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 209 |
| TOTAL REQUEST | | | | 4,381 |
| TOTAL REQUEST (ROUNDED) | | | | 4,400 |

10. Description of Proposed Construction: Concrete floor slab, foundations, footings, structural steel framing, masonry walls and built-up roof. Mechanical ventilation system, drainage with oil/water separator, fire suppression, personnel breathing apparatus and all utilities and support. Demolish Buildings 120, 130, 132 (12,132 SF). Fighter type fuel cell to be converted to shops by a separate project. Air Conditioning: 10 Tons.

11. REQUIREMENT: 21,100 SF ADEQUATE: 0 SUBSTANDARD: 12,132 SF
PROJECT: Fuel Cell Dock (New Mission).
REQUIREMENT: This project supports the conversion from RF-4C fighter aircraft to new large body aircraft and is a level II environmental compliance project. A facility for repair of aircraft fuel cells and bladders is required. Functional areas include fuel cell hangar bay, bladder repair and support shops and approach aprons to the hangar. Work must be performed indoors to keep dust and debris from entering the fuel cell bladders and to meet environmental requirements.
CURRENT SITUATION: The unit does not have an adequately sized facility to perform fuel cell maintenance on the new aircraft. Weather conditions and environmental regulations require fuel cell maintenance and corrosion control be performed indoors since the aircraft have fuel bladders and cells must remain open for a considerable time. A follow on project will convert the existing fighter fuel cell to shop space in support of this conversion.
IMPACT IF NOT PROVIDED: Fuel cell maintenance cannot be performed on the new aircraft impacting the unit's operational readiness. Compliance with environmental regulations cannot be met without this facility. Unable to convert to new aircraft.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BIRMINGHAM AIRPORT (ANG) ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FUEL CELL DOCK | BRKR919593 |

ADDITIONAL: A life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project. The analysis indicates the new construction is the most economical alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BIRMINGHAM AIRPORT (ANG) ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FUEL CELL DOCK | BRKR919593 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 SEP 23 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 93 JAN 01 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 232 |
| (b) All Other Design Costs | 146 |
| (c) Total | 378 |
| (d) Contract | 378 |
| (e) In-house | |
| (4) Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>DANNELLY FIELD AIR NATIONAL GUARD, ALABAMA | | 4. AREA CONSTR COST INDEX<br>0.79 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Active AFB, 1 Marine Reserve, 1 Naval Reserve, 3 Army Reserves, 5 Army National Guard Units and 2 Air National Guard Units

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 10,200 SF | 1,750 | APR 86 | MAR 88 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 7 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 870 |
| 124-135 | REPAIR JET FUEL STORAGE | 6 EA | 300 |
| 171-445 | UPGRADE COMPOSITE OPERATIONS AND TRAINING FACILITY | 33,200 SF | 1,500 |
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 17,900 SF | 4,200 |
| 442-758 | UPGRADE BASE SUPPLY AND CIVIL ENGINEER FACILITY | 63,800 SF | 1,900 |
| 730-142 | FIRE STATION | 9,100 SF | 1,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
DANNELLY FIELD AIR NATIONAL GUARD, ALABAMA

11. PERSONNEL STRENGTH AS OF 15 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 282 | 8 | 43 | 231 | 1,042 | 98 | 944 |
| ACTUAL | 272 | 7 | 42 | 223 | 1,022 | 107 | 915 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 160 | FS SQ | 50 | 53 |
| 187 | MSS SQ | 80 | 74 |
| 187 | TCI CL | 31 | 32 |
| 187 | GP HQ | 57 | 58 |
| 187 | CLM SQ | 462 | 405 |
| 187 | CEG SQ | 127 | 114 |
| 187 | SEP FT | 57 | 58 |
| 187 | RMS SQ | 121 | 115 |
| 187 | COM FT | 20 | 20 |
| 187 | MSS FT | 37 | 36 |
| 0187 | STU FT | 0 | 57 |
| | TOTALS | 1,042 | 1,022 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 20 |
| C-130 Aircraft | 1 | 0 |
| Support Equipment | 194 | 225 |
| Vehicle Equivalents | 120 | 120 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DANNELLY FIELD AIR NATIONAL GUARD<br>ALABAMA | VEHICLE MAINTENANCE COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 214-425 | FAKZ001271 | $1,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| VEHICLE MAINTENANCE COMPLEX | SF | 10,200 | | 1,160 |
| VEHICLE MAINTENANCE SHOP | SF | 8,700 | 110 | ( 957) |
| REFUELER VEHICLE SHOP | SF | 1,500 | 135 | ( 203) |
| SUPPORTING FACILITIES | | | | 435 |
| PAVEMENTS | LS | | | ( 120) |
| UTILITIES | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 165) |
| SUBTOTAL | | | | 1,595 |
| CONTINGENCY (5%) | | | | 80 |
| TOTAL CONTRACT COST | | | | 1,675 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 84 |
| TOTAL REQUEST | | | | 1,759 |
| TOTAL REQUEST (ROUNDED) | | | | 1,750 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with masonry and prefabricated walls and roof structure. Pavements, utilities, fire protection and site work. Disposal of 8,648 SF in Buildings 1207, 1208, 1209, 1211, and 1212.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 10,200 SF ADEQUATE: 0 SUBSTANDARD: 8,648 SF
PROJECT: Vehicle Maintenance Complex (Current Mission).
REQUIREMENT: A facility for training, repair and maintenance of organizational vehicles and related equipment is required. Functional areas include maintenance bays, paint bay, lube bay, office areas, and vehicle parts storage.
CURRENT SITUATION: Vehicle maintenance and storage are performed in 5 substandard facilities constructed in 1953 which cannot be economically upgraded. The buildings are old and antiquated and have numerous health and safety violations. There is no oil/water separator or exhaust fume removal system. The interior layout precludes effective and orderly maintenance of the equipment. The buildings are poorly insulated and improperly located for the future development of the base in accordance with the approved master plan. The facilities will be demolished.
IMPACT IF NOT PROVIDED: Unsafe and inefficient operations. Lost training opportunities. Inadequate maintenance on the vehicles leads to vehicular damage and premature replacement. Continue to work and train with the risk of the health and safety deficiencies.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | FEB 1993 |

3. INSTALLATION AND LOCATION

DANNELLY FIELD AIR NATIONAL GUARD ALABAMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| VEHICLE MAINTENANCE COMPLEX | FAKZ001271 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 86 APR 01 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 87 MAY 06 |
| (d) Date Design Complete | 88 MAR 24 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 55 |
| (b) All Other Design Costs | 20 |
| (c) Total | 75 |
| (d) Contract | 75 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>KULIS ANG BASE, ALASKA | | 4. AREA CONSTR COST INDEX<br>1.79 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard, 1 Army Post, 1 Air Force Base

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,100 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 19 MAY 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | UPGRADE JET FUEL STORAGE COMPLEX | | LS | 3,000 |
| 124-135 | REPLACE DERA USTS | 3 | EA | 525 |
| 131-111 | COMMUNICATION AND SECURITY POLICE FACILITY | 17,500 | SF | 3,900 |
| 211-111 | ADD TO AND ALTER AIRCRAFT MAINT HANGAR | 8,500 | SF | 2,000 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | | LS | 5,600 |
| 219-944 | COMPOSITE BASE ENGINEER MAINTENANCE FACILITY | 24,150 | SF | 5,300 |
| 722-351 | ADD TO AND ALTER MEDICAL TRAINING AND DINING HALL | 21,350 | SF | 3,250 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
KULIS ANG BASE, ALASKA

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 405 | 57 | 316 | 32 | 1,096 | 150 | 946 |
| ACTUAL | 405 | 56 | 317 | 32 | 1,101 | 157 | 944 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 144 | AS SQ | 96 | 102 |
| 176 | CEG SQ | 74 | 80 |
| 176 | CLM SQ | 174 | 161 |
| 176 | CMN FT | 21 | 24 |
| 176 | CMP GP | 71 | 74 |
| 176 | MAP FT | 69 | 71 |
| 176 | MSQ FT | 40 | 40 |
| 176 | MSQ SQ | 45 | 48 |
| 176 | RMS SQ | 122 | 121 |
| 176 | TCI CI | 50 | 57 |
| 176 | SEP FT | 58 | 62 |
| 176 | SVS FT | 25 | 18 |
| 210 | RQ SQ | 94 | 100 |
| 210 | CLM SQ | 157 | 143 |
| | TOTALS | 1,096 | 1,101 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 8 | 10 |
| HC-130H Aircraft | 4 | 2 |
| MH-60G | 6 | 4 |
| Support Equipment | 93 | 87 |
| Vehicle Equivalents | 324 | 383 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KULIS ANGB ALASKA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | MLRV909537 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 860 |
| SUPPORTING FACILITIES | | | | 96 |
| UTILITIES | LS | | | ( 12) |
| PAVEMENTS | LS | | | ( 12) |
| SITE RESTORATION | LS | | | ( 72) |
| SUBTOTAL | | | | 956 |
| CONTINGENCY (10%) | | | | 96 |
| TOTAL CONTRACT COST | | | | 1,052 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,105 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Replace 14 tanks. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention systems by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

KULIS ANGB ALASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | MLRV909537 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| | (a) Date Design Started | 91 NOV 08 |
| | (b) Percent Complete as of Jan 93 | 35% |
| | (c) Date 35% Designed | 93 JAN 01 |
| | (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| | (a) Production of Plans and Specifications | 55 |
| | (b) All Other Design Costs | 27 |
| | (c) Total | 82 |
| | (d) Contract | 82 |
| | (e) In-house | |
| (4) Construction Start | | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>TUCSON INTERNATIONAL AIRPORT, ARIZONA | | 4. AREA CONSTR COST INDEX<br>1.00 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for pilot training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Base, 1 Naval Reserve Unit, 1 Army Reserve Unit, 1 Army National Guard Unit, 1 Air Force Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 440 | NOV 91 | JUL 93 |
| 131-111 | ADD TO AND ALTER COMMUNICATIONS FACILITY | 9,000 SF | 700 | APR 89 | MAR 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 30 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE DERA USTS | 4 EA | 1,000 |
| 171-445 | OPS AND TRAINING | 20,000 SF | 3,300 |
| 218-712 | ADD TO AND ALTER AGE SHOP | 10,000 SF | 600 |
| 442-758 | UPGRADE SUPPLY AND VEHICLE MAINTENANCE FACILITY | 88,300 SF | 3,200 |
| 722-351 | UPGRADE DINING HALL | 22,100 SF | 1,800 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
TUCSON INTERNATIONAL AIRPORT, ARIZONA

11. PERSONNEL STRENGTH AS OF 31 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 894 | 86 | 795 | 13 | 1,586 | 169 | 1,417 |
| ACTUAL | 891 | 85 | 793 | 13 | 1,589 | 157 | 1,432 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 146 FT SQ | 42 | 37 |
| 152 FG SQ | 24 | 26 |
| 162 CES SQ | 149 | 144 |
| 162 CAM SQ | 791 | 799 |
| 162 CMN FT | 21 | 22 |
| 162 MSQ FT | 55 | 52 |
| 162 MSQ SQ | 97 | 106 |
| 162 RMS SQ | 159 | 160 |
| 162 TCI CI | 73 | 67 |
| 162 FG GP | 99 | 97 |
| 162 SVS FT | 43 | 45 |
| 195 FT SQ | 33 | 34 |
| TOTALS | 1,586 | 1,589 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| A-16 A/B Aircraft | 52 | 52 |
| C-26 Aircraft | 1 | 1 |
| Support Equipment | 328 | 275 |
| Vehicle Equivalents | 480 | 480 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TUCSON INTERNATIONAL AIRPORT ARIZONA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | XHEA909529 | $440 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 320 |
| SUPPORTING FACILITIES | | | | 64 |
| UTILITIES | LS | | | ( 8) |
| PAVEMENTS | LS | | | ( 8) |
| SITE RESTORATION | LS | | | ( 48) |
| SUBTOTAL | | | | 384 |
| CONTINGENCY (10%) | | | | 38 |
| TOTAL CONTRACT COST | | | | 422 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 21 |
| TOTAL REQUEST | | | | 443 |
| TOTAL REQUEST (ROUNDED) | | | | 440 |

10. Description of Proposed Construction: Replace 8 tanks. Excavate and remove the tanks; dispose of the tanks and tank residue and any contaminated soil and restore the site.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST is to be replaced, Air Force policy is to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. The tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

TUCSON INTERNATIONAL AIRPORT ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | XHEA909529 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 20 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 12 |
| (b) All Other Design Costs | 7 |
| (c) Total | 19 |
| (d) Contract | 19 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TUCSON INTERNATIONAL AIRPORT ARIZONA | ADD TO AND ALTER COMMUNICATIONS FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 131-111 | XHEA000885 | $700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER COMMUNICATIONS FACILITY | SF | 9,000 | | 570 |
| ADD TO COMM | SF | 4,000 | 90 | ( 360) |
| ALTER COMM | SF | 5,000 | 42 | ( 210) |
| SUPPORTING FACILITIES | | | | 60 |
| UTILITIES | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 15) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| PRE WIRED WORK STATIONS | LS | | | ( 20) |
| SUBTOTAL | | | | 630 |
| CONTINGENCY (5%) | | | | 32 |
| TOTAL CONTRACT COST | | | | 662 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 33 |
| TOTAL REQUEST | | | | 695 |
| TOTAL REQUEST (ROUNDED) | | | | 700 |

10. Description of Proposed Construction: Addition: Reinforced concrete foundation and floor slab, block walls and roof structure. Exterior to match existing. Alteration: rearrange interior walls and utilities systems. Exterior utilities, pavements, fire protection, and support. Air Conditioning: 6 Tons.

11. REQUIREMENT: 9,000 SF ADEQUATE: 0 SUBSTANDARD: 5,000 SF
PROJECT: Add to and Alter Communications Facility (Current Mission).
REQUIREMENT: Reorganization of the base support function has resulted in an expanded mission for the communications flight, to include mission support, mobility training, and automated data processing. This requires a larger and reconfigured building interior.
CURRENT SITUATION: The communications center is operating in 42 percent of its authorized space. This shortage has resulted in extreme degradation of the quality of the working environment and support function. Shortages exist for tape storage, administrative work area, training areas, electronic repair and storage and automated data processing. Some of the rooms are too large while others are too small.
IMPACT IF NOT PROVIDED: The consolidated communications center and data automation function will continue to operate in an overcrowded substandard space, decreasing the effectiveness of the unit. Training opportunities will be lost. Possible compromise in security due to the overcrowded working conditions.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | FEB 1993 |

3. INSTALLATION AND LOCATION

TUCSON INTERNATIONAL AIRPORT ARIZONA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER COMMUNICATIONS FACILITY | XHEA000885 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 APR 05 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 91 JUN 12 |
| (d) Date Design Complete | 92 MAR 06 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 33 |
| (b) All Other Design Costs | 15 |
| (c) Total | 48 |
| (d) Contract | 48 |
| (e) In-house | |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FT SMITH MUNICIPAL AIRPORT ANG, ARKANSAS

4. AREA CONSTR COST INDEX
0.96

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army Reserve and 1 Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-159 | AIRCRAFT CORROSION CONTROL FACILITY | 6,000 SF | 1,100 | JUL 92 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 23 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-450 | MEDICAL/TELECOM/FITNESS TRAINING FACILITY | 3,800 SF | 390 |
| 214-428 | ADD TO AND ALTER VEHICLE MAINTENANCE COMPLEX | 7,800 SF | 920 |
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 18,050 SF | 2,200 |
| 842-245 | INSTALL UTILITIES N. BASE | 1,000 LF | 280 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FT SMITH MUNICIPAL AIRPORT ANG, ARKANSAS

11. PERSONNEL STRENGTH AS OF 26 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 268 | 6 | 40 | 222 | 1,065 | 110 | 955 |
| ACTUAL | 263 | 6 | 40 | 217 | 1,044 | 109 | 935 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 184 | TFG HQ | 50 | 54 |
| 188 | CEG SQ | 136 | 132 |
| 188 | CLM SQ | 460 | 442 |
| 188 | MSQ FT | 38 | 42 |
| 188 | MSS SQ | 45 | 43 |
| 188 | RMS SQ | 119 | 121 |
| 188 | TCI CI | 69 | 65 |
| 188 | TFG GP | 59 | 59 |
| 188 | SEP FT | 57 | 55 |
| 188 | SVS FT | 25 | 25 |
| 188 | DET 1 | 7 | 6 |
| | TOTALS | 1,065 | 1,044 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 A/B Aircraft | 18 | 21 |
| C-12 Aircraft | 1 | 1 |
| Support Equipment | 121 | 110 |
| Vehicle Equivalents | 244 | 264 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | FEB 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FT SMITH MUNICIPAL AIRPORT ANG ARKANSAS | AIRCRAFT CORROSION CONTROL FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-159 | HKRZ929804 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT CORROSION CONTROL FACILITY | SF | 6,000 | 115 | 690 |
| SUPPORTING FACILITIES | | | | 320 |
| UTILITIES | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| FIRE SUPPRESSION SYSTEM | LS | | | ( 200) |
| SUBTOTAL | | | | 1,010 |
| CONTINGENCY (5%) | | | | 51 |
| TOTAL CONTRACT COST | | | | 1,061 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,114 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Provide reinforced concrete foundation and floor slab, masonry/metal walls, structual steel framing, open web joists, metal pan roof, and a built up roofing system. Provide all utilities, pavements, site improvements, and an oil/water separator. Air Conditioning: 15 Tons.

11. REQUIREMENT: 17,000 SF ADEQUATE: 11,000 SF SUBSTANDARD: 0
PROJECT: Aircraft Corrosion Control Facility (Current Mission).
REQUIREMENT: This is a category II environmental compliance project. A facility is required to perform environmentally safe corrosion control work on the F-16 aircraft which consists of washing and solvent cleaning the aircraft and the painting of aircraft parts on and off the aircraft. Functional areas include administration, training, corrosion control hangar bay and paint spray areas/equipment for both large and small parts that might be on or off the aircraft.
CURRENT SITUATION: Corrosion control is being performed on the existing aircraft in two widely separated areas. Normally, the fuel system/corrosion control facility has supported both procedures but not simultaneously due to the strict requirements of preventing fuel cell contamination. When fuel system work is in progress, no corrosion control processes can use the single hangar bay. Washing of aircraft in done outside on a washrack and is limited to nine months of the year due to the cold weather and dust storms. Washing during the other three months is in the existing fuel cell/corrosion control facility. The oil/water separator for the existing facility does not meet current state and federal regulations and is inadequate in size to handle the fuel spills. In addition, the painting of large and small aircraft parts on and off the aircraft is in this facility. With the F-16 aircraft, the fuel

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

FT SMITH MUNICIPAL AIRPORT ANG ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT CORROSION CONTROL FACILITY | HKRZ929804 |

cell/corrosion control facility is required to perform fuel cell maintenance work most of the time due to the nature of the F-16. The painting is done outside or in temporary paint spray booths. These interim solutions are not acceptable and violate air pollution, OSHA, Federal and State EPA regulations.

IMPACT IF NOT PROVIDED: Inefficient training of the weekend forces. Poor working conditions for the full time and weekend forces. Mission capability of the corrosion control/fuel cell shop and the health and welfare of its personnel are adversely affected. The unit is not able to support the corrosion control functions. Environmental statutes are violated through air polution, water polution and soil contamination. Possible fines or shut down of the facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

FT SMITH MUNICIPAL AIRPORT ANG ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT CORROSION CONTROL FACILITY | HKRZ929804 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 01 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 20 |
| (d) | Date Design Complete | 93 AUG 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 55 |
| (b) | All Other Design Costs | 27 |
| (c) | Total | 82 |
| (d) | Contract | |
| (e) | In-house | 82 |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
LITTLE ROCK AIR FORCE BASE, ARKANSAS

4. AREA CONSTR COST INDEX
0.87

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force, instructors and students, and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Reserve Facility, 3 Army National Guard Armories, 1 Army National Guard Complex, 5 Army Reserve Facilities, 1 Naval/Marine Complex and Training Force Base.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-445 | OPERATIONS FACILITY | 47,400 SF | 3,750 | JUL 91 | DEC 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 23 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 121-111 | PETROLEUM OPERATIONS FACILITY | 1,350 SF | 325 |
| 211-179 | FUEL CELL AND CORROSION CONTROL DOCK | 15,000 SF | 3,300 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 14,300 SF | 1,950 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
LITTLE ROCK AIR FORCE BASE, ARKANSAS

11. PERSONNEL STRENGTH AS OF 31 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 339 | 64 | 260 | 15 | 1,107 | 150 | 957 |
| ACTUAL | 331 | 56 | 260 | 15 | 1,045 | 140 | 905 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 000 | AXD HQ | 29 | 28 |
| 123 | RTC SQ | 83 | 74 |
| 154 | TTR SQ | 109 | 103 |
| 189 | CEG SQ | 150 | 143 |
| 189 | SG | 55 | 50 |
| 189 | CLM SQ | 181 | 179 |
| 189 | CMN FT | 21 | 20 |
| 189 | MAP FT | 69 | 68 |
| 189 | MSQ FT | 37 | 32 |
| 189 | MSQ SQ | 45 | 44 |
| 189 | RMS SQ | 120 | 119 |
| 189 | SVF SQ | 25 | 22 |
| 189 | SEP FT | 57 | 54 |
| 189 | TAG HQ | 74 | 70 |
| 8189 | STU FT | 52 | 39 |
| | TOTALS | 1,107 | 1,045 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130E Aircraft | 10 | 10 |
| AGE Equipment | 47 | 47 |
| Support Equipment | 124 | 122 |
| Vehicle Equivalents | 209 | 209 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LITTLE ROCK AIR FORCE BASE ARKANSAS | OPERATIONS FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-445 | NKAK919659 | $3,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| OPERATIONS FACILITY | SF | 47,400 | | 2,939 |
| OPERATIONS SHOP | SF | 28,600 | 90 | ( 2,574) |
| SPECIFIED HEADQUARTERS | SF | 3,000 | 90 | ( 270) |
| ALTER BUILDING 207 | SF | 15,800 | 6 | ( 95) |
| SUPPORTING FACILITIES | | | | 480 |
| UTILITIES | LS | | | ( 150) |
| PRE WIRED WORK STATIONS | LS | | | ( 200) |
| SITE IMPROVEMENTS | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 80) |
| SUBTOTAL | | | | 3,419 |
| CONTINGENCY (5%) | | | | 171 |
| TOTAL CONTRACT COST | | | | 3,590 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 180 |
| TOTAL REQUEST | | | | 3,770 |
| TOTAL REQUEST (ROUNDED) | | | | 3,750 |

10. Description of Proposed Construction: Masonry and steel construction with paved access and vehicle parking. All utilities, pavement, fire protection and support. Demolition of building 101 at 2,669 SF.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 31,600 SF ADEQUATE: 0 SUBSTANDARD: 18,496 SF
PROJECT: Operations Facility (Current Mission).
REQUIREMENT: The base requires properly sized and configured space for the operations and training of aircrews, base operations, life support, administration, state headquarters staff, and aircraft maintenance.
CURRENT SITUATION: Aircrew operations are conducted in a small and poorly configured three floor addition to a hangar. No space exists for the pilots work stations or mission debriefing and study areas. The areas are too small to properly support the mission. Equipment is stored in hallways. There are numerous health, safety and fire hazards. Classrooms are small and there is no room for all the different crew members. The classrooms partitions are not insulated. Excessive noise filters through the walls and interrupts the operations and training in adjacent rooms. Classified information cannot be properly discussed. The rooms walls do not meet the standards for classified briefings. Guards must be constantly posted outside the rooms when classified information is being discussed. The rooms do not have the proper visual aids. The classroms and operations rooms are small and do not lend themselves to the minimum acceptable standards for pilot operations. The heating and air conditioning systems are not balanced. This type of operation doe not belong in an annex to the hangar. In accordance with the approved master development plan, the base is also critically deficient in aircraft support space. After minor renovation, the vacated space in building 207

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| OPERATIONS FACILITY | NKAK919659 |

will be reused primarily by Aircraft Maintenance since the area is next to the hangar floor. Also included in this space reallignment are the disaster preparedness and the base contracting functions.
IMPACT IF NOT PROVIDED: Inadequate space continues to degrade the C 130 operations. Lost training opportunities. Continue to live with the health, safety and fire hazards. Poor training may result in an aircraft mishap. Possible compromise in security. Inability to reach full operational capability.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE ARKANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| OPERATIONS FACILITY | NKAK919659 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 JUL 24 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 OCT 01 |
| (d) Date Design Complete | 93 DEC 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 162 |
| (b) All Other Design Costs | 57 |
| (c) Total | 219 |
| (d) Contract | 219 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| FRESNO AIR TERMINAL (ANG), CALIFORNIA | 1.21 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily and night use by technician/AGR force for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard, 1 Army Reserve, 1 Naval Reserve Center, 1 Marine Corp Reserve and 1 Coast Guard Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 490 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | 4 | EA | 1,000 |
| 141-459 | CREW READINESS | | LS | 4,200 |
| 171-445 | COMPOSITE SUPPORT FACILITY | 31,200 | SF | 4,900 |
| 214-425 | VEHICLE MAINTENANCE FACILITY | 14,300 | SF | 2,350 |
| 442-758 | BASE SUPPLY COMPLEX | 58,500 | SF | 5,600 |
| 851-147 | SITE RESTORATION PHASE I | | LS | 4,100 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FRESNO AIR TERMINAL (ANG), CALIFORNIA

11. PERSONNEL STRENGTH AS OF 1 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 378 | 5 | 68 | 305 | 1,045 | 110 | 935 |
| ACTUAL | 371 | 5 | 68 | 298 | 1,020 | 102 | 918 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 144 CEG SQ | 136 | 130 |
| 144 CLI CI | 55 | 54 |
| 144 CLM SQ | 411 | 398 |
| 144 FIN WG | 66 | 66 |
| 144 MSQ FT | 41 | 41 |
| 144 MSQ SQ | 45 | 45 |
| 144 RMS SQ | 120 | 120 |
| 144 SEP FT | 85 | 84 |
| 194 FIN SQ | 43 | 42 |
| 144 DET 01 | 18 | 16 |
| 144 SVS FT | 25 | 24 |
| TOTALS | 1,045 | 1,020 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 20 |
| C-131 Aircraft | 1 | 1 |
| Support Equipment | 128 | 121 |
| Vehicle Equivalents | 237 | 237 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FRESNO AIR TERMINAL (ANG) CALIFORNIA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | HAYW909639 | $490 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 280 |
| SUPPORTING FACILITIES | | | | 143 |
| UTILTIES | LS | | | ( 4) |
| PAVEMENTS | LS | | | ( 4) |
| SITE RESTORATION | LS | | | ( 60) |
| FUEL DISPENSING RELOCATION | LS | | | ( 75) |
| SUBTOTAL | | | | 423 |
| CONTINGENCY (10%) | | | | 42 |
| TOTAL CONTRACT COST | | | | 465 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 23 |
| TOTAL REQUEST | | | | 488 |
| TOTAL REQUEST (ROUNDED) | | | | 490 |

10. Description of Proposed Construction: Replace 4 tanks and remove only 6 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The USTs at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated USTs require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 19[illegible] |

3. INSTALLATION AND LOCATION

FRESNO AIR TERMINAL (ANG) CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | HAYW909639 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 30 |
| (d) | Date Design Complete | 93 JUL 05 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 25 |
| (b) | All Other Design Costs | 10 |
| (c) | Total | 35 |
| (d) | Contract | 35 |
| (e) | In-house | |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| ONTARIO INTERNATIONAL AIRPORT ANG, CALIFORNIA | 1.20 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Navy Station, 1 Navy Center, 1 Naval Reserve Center, 3 Army Reserve Units and 7 Army Guard Units.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 310 | MAR 90 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-134 | REPLACE DERA USTS | | LS | 330 |
| 214-425 | COMPOSITE VEHICLE AND SUPPORT EQUIPMENT MAINTENANCE FACILITY | 16,800 | SF | 2,000 |
| 442-758 | COMPOSITE BASE SUPPLY AND BASE CIVIL ENGINEER FACILITY | 10,500 | SF | 2,000 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ONTARIO INTERNATIONAL AIRPORT ANG, CALIFORNIA

11. PERSONNEL STRENGTH AS OF 10 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 27 | 1 | 24 | 2 | 141 | 8 | 133 |
| ACTUAL | 25 | 1 | 22 | 2 | 144 | 5 | 139 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 149 CC SQ | 141 | 144 |
| TOTALS | 141 | 144 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 58 | 58 |
| Vehicle Equivalents | 160 | 160 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO

4. AREA CONSTR COST INDEX
0.97

5. FREQUENCY AND TYPE OF UTILIZATION
Normal tenant organization admin 5 days/week; Weekend unit tng assemblies 2/3 day weekends one weekend/month tenant organization; 1 evening/week "Open House", physical fitness and administration for each tenant organ; Band practice 1 day/month; Schedules ensemblies practice one day/week.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
400 Person Armory, Aurora, 3 Miles; Fitzsimmons, Denver, 6 Miles; Navy (Navy, Marines, Coast Guard) Reserve Center, Aurora, 1/2 Mile; 4 ARNG Armories, Army Aviation Support Facility, Organization Maintenance Facility, USAR Armories, Denver, 4 and 6 Miles.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 215-552 | F-16 WEAPONS RELEASE SHOP | 11,200 SF | 1,300 | APR 88 | APR 91 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 JAN 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 116-672 | AIRCRAFT WASHRACK AND DEICING PAD | 1,200 SY | 390 |
| 124-135 | UPGRADE JET FUEL STORAGE COMPLEX | LS | 1,650 |
| 131-111 | ADD TO AND ALTER COMMUNICATION FACILITY | 11,200 SF | 800 |
| 211-179 | ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK | 17,000 SF | 1,300 |
| 219-943 | BASE ENGINEER PAVEMENTS AND GROUNDS FACILITY | 3,400 SF | 450 |
| 851-147 | UPGRADE BASE INFRASTRUCTURE | LS | 12,000 |
| 851-147 | ROAD | LS | |
| 999-999 | USPFO APPROVED CLASS (MC) | LS | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO

11. PERSONNEL STRENGTH AS OF 22 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 703 | 58 | 386 | 259 | 1,661 | 239 | 1,422 |
| ACTUAL | 695 | 58 | 385 | 252 | 1,607 | 235 | 1,372 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 240 | CEF FT | 38 | 39 |
| 140 | RMS SQ | 120 | 118 |
| 140 | FW DET | 13 | 14 |
| 140 | MSS FT | 35 | 38 |
| 120 | FTS SQ | 58 | 63 |
| 140 | SVS FT | 34 | 36 |
| 140 | TAC HP | 73 | 67 |
| 140 | MSS SQ | 46 | 46 |
| 140 | CAM MT | 547 | 480 |
| 140 | FTW WG | 56 | 59 |
| 140 | COM FT | 21 | 24 |
| 120 | WEA FT | 17 | 22 |
| 140 | CES SQ | 124 | 119 |
| 154 | ACG GP | 131 | 120 |
| 227 | ATC FT | 66 | 59 |
| 138 | ACS SQ | 92 | 108 |
| 140 | SP FT | 57 | 62 |
| HQ | OL-BB | 102 | 100 |
| HQ | CO ANG | 31 | 33 |
| | TOTALS | 1,661 | 1,607 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 25 |
| T-43A Aircraft | 4 | 4 |
| Support Equipment | 292 | 290 |
| Vehicle Equivalents | 727 | 769 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BUCKLEY AIR NATIONAL GUARD BASE COLORADO | F-16 WEAPONS RELEASE SHOP |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 215-552 | CRWU001329 | $1,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| F-16 WEAPONS RELEASE SHOP | SF | 11,200 | 95 | 1,064 |
| SUPPORTING FACILITIES | | | | 130 |
| UTILITIES | LS | | | ( 40) |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| ASBESTOS REMOVAL/DEMOLITION | LS | | | ( 50) |
| SUBTOTAL | | | | 1,194 |
| CONTINGENCY (5%) | | | | 60 |
| TOTAL CONTRACT COST | | | | 1,254 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 63 |
| TOTAL REQUEST | | | | 1,317 |
| TOTAL REQUEST (ROUNDED) | | | | 1,300 |

10. Description of Proposed Construction: Reinforced concrete slab and foundation, masonry walls, built-up roof and fire protection. Provide all necessary electrical, mechanical and structural work. All utilities, pavements and site improvements. Remove asbestos and demolish Building 950 (20,250 SF).
Air Conditioning: 20 Tons.

11. REQUIREMENT: 11,200 SF ADEQUATE: 0 SUBSTANDARD: 20,250 SF
PROJECT: F-16 Weapons Release Shop (New Mission).
REQUIREMENT: This project supports the conversion from A-7 to F-16 in October 1992. A properly sized and configured facility to support weapons release, gun maintenance, equipment storage, loading standardization crew and training, branch and support offices is required.
CURRENT SITUATION: The present facility was jointly used by weapons release system and avionics shops. It is grossly inadequate and is located in the runway clear zone and must be demolished. The avionics shop has been relocated to the hangar by a FY 92 MILCON project. The weapons release systems functions need to be expanded and relocated into a new building in a new site in accordance with the approved master development plan.
IMPACT IF NOT PROVIDED: Overcrowded conditions will continue to severely reduce maintenance efficiency and training. Shop space will not be available to support aircraft conversion equipment/operations that require increased test and maintenance capabilities. The operational readiness of the unit is being adversely impacted. Unable to achieve full operational capability. Personnel continue to be exposed to the hazards associated with being located in the airfield clear zone.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BUCKLEY AIR NATIONAL GUARD BASE COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| F-16 WEAPONS RELEASE SHOP | CRWU001329 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 APR 14 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 90 SEP 30 |
| (d) Date Design Complete | 91 APR 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 57 |
| (b) All Other Design Costs | 30 |
| (c) Total | 87 |
| (d) Contract | 87 |
| (e) In-house | |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION BRADLEY INTERNATIONAL AIRPORT CONNECTICUT | | 4. AREA CONSTR COST INDEX 1.13 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
Four Army National Guard Installations

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 219-944 | ADD TO AND ALTER BASE CIVIL ENGINEER FACILITY | 18,400 SF | 510 | JUN 92 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 NOV 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-445 | ADD TO AND ALTER OPS AND TRAINING | 37,500 SF | 1,400 |
| 171-447 | AIR COMBAT CONTROL FACILITY COMPLEX | LS | 12,400 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BRADLEY INTERNATIONAL AIRPORT CONNECTICUT

11. PERSONNEL STRENGTH AS OF 11 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 280 | 22 | 246 | 12 | 1,055 | 122 | 933 |
| ACTUAL | 272 | 22 | 240 | 10 | 1,019 | 111 | 908 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ CT ANG | 23 | 24 |
| 103 TFW GP | 58 | 59 |
| 103 TGI CI | 69 | 51 |
| 103 CLM SQ | 405 | 401 |
| 103 SEP FT | 57 | 62 |
| 103 CEG SQ | 124 | 119 |
| 103 SVS FT | 25 | 22 |
| 103 RMS SQ | 122 | 117 |
| 103 MSS SQ | 45 | 52 |
| 103 MSS FT | 41 | 34 |
| 118 TFS SQ | 51 | 50 |
| 0103 STU FT | 35 | 28 |
| TOTALS | 1,055 | 1,019 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| A-10 Aircraft | 18 | 18 |
| F-16 Aircraft | 18 | 0 |
| C-12 Aircraft | 1 | 1 |
| Support Equipment | 69 | 69 |
| Vehicle Equivalents | 197 | 209 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BRADLEY INTERNATIONAL AIRPORT<br>CONNECTICUT | ADD TO AND ALTER BASE CIVIL ENGINEER FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 219-944 | CEKT919640 | $510 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER BASE CIVIL ENGINEER FACILITY | SF | 18,400 | | 388 |
| ADD TO FACILITY | SF | 4,200 | 44 | ( 185) |
| ALTER FACILITY | SF | 10,200 | 7 | ( 71) |
| CONSTRUCT COVERED STORAGE | SF | 4,000 | 33 | ( 132) |
| SUPPORTING FACILITIES | | | | 75 |
| PREWIRED WORK STATIONS | LS | | | ( 65) |
| UTILITIES | LS | | | ( 10) |
| SUBTOTAL | | | | 463 |
| CONTINGENCY (5%) | | | | 23 |
| TOTAL CONTRACT COST | | | | 486 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 24 |
| TOTAL REQUEST | | | | 510 |
| TOTAL REQUEST (ROUNDED) | | | | 510 |

10. Description of Proposed Construction: Addition: concrete foundation and pre-engineered structure to match existing. Alterations consist of removal of gypsum walls and use of pre-wired work stations. Upgrade mechanical and electrical systems. Construct a covered storage facility: concrete foundation and floor slab, masonry walls, built-up or pitched roof and minimal utilities. Demolish building 5 at 1462 SF.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 18,400 SF ADEQUATE: 0 SUBSTANDARD: 11,662 SF
PROJECT: Add to and Alter Base Civil Engineer Facility (Current Mission).
REQUIREMENT: The base requires a properly configured and an adequately sized base civil engineering space to administer and house personnel to maintain real property on a daily basis and to prepare/train for contingency operations on training weekends.
CURRENT SITUATION: Additional space is required for the mechanical shop, located in an old pumphouse Building 5, and portions of the pavement and equipment shop, now located in Buildings 5 and 758 (a temporary State owned facility). Storage space for mobility equipment is inadequate. Control and accountability of this equipment is inadequate. Construction materials are stored improperly. There is also inadequate security. Administrative functions are fragmented resulting in inefficient operations and decreased morale.
IMPACT IF NOT PROVIDED: Real property management, record keeping and other administrative operations continue to be hampered by insufficient and poorly configured space. Contingency training opportunities are lost. Productivity is decreased. Pilferable building materials continue to be stored with less than adequate security.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BRADLEY INTERNATIONAL AIRPORT CONNECTICUT

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER BASE CIVIL ENGINEER FACILITY | CEKT919640 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUN 01 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 20 |
| (d) | Date Design Complete | 93 AUG 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 24 |
| (b) | All Other Design Costs | 10 |
| (c) | Total | 34 |
| (d) | Contract | 34 |
| (e) | In-house | |
| (4) Construction Start | | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NEW CASTLE COUNTY AIRPORT, DELAWARE

4. AREA CONSTR COST INDEX
0.97

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Navy Reserve Building, Wilmington Area. 1 Army Reserve Building, Wilmington Area. 6 Army National Guard.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 890 | SEP 91 | JUL 93 |
| 131-111 | COMMUNICATIONS FACILITY | 8,000 | SF | 900 | DEC 87 | OCT 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 29 JAN 93 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | | LS | 710 |
| 730-142 | FIRE STATION AND AGE FACILITY | 13,700 | SF | 1,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NEW CASTLE COUNTY AIRPORT, DELAWARE

11. PERSONNEL STRENGTH AS OF 10 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 322 | 28 | 286 | 8 | 1,037 | 170 | 867 |
| ACTUAL | 284 | 25 | 251 | 8 | 962 | 156 | 806 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| XH HQ | 27 | 25 |
| 142 AME SQ | 97 | 84 |
| 142 AS | 96 | 89 |
| 166 CEG SQ | 136 | 126 |
| 166 CLM SQ | 172 | 156 |
| 166 CMN FT | 21 | 17 |
| 166 MSQ FT | 40 | 36 |
| 166 MSQ SQ | 45 | 41 |
| 166 MAP FT | 69 | 60 |
| 166 RMS SQ | 120 | 103 |
| 166 AG | 57 | 50 |
| 166 TCI CI | 73 | 60 |
| 166 SPF FT | 57 | 53 |
| 166 SV FT | 27 | 21 |
| 166 STU FT | 0 | 41 |
| TOTALS | 1,037 | 962 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130 | 8 | 8 |
| Support Equipment | 84 | 77 |
| Vehicle Equivalents | 226 | 237 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA | 2. DATE |
|---|---|---|
| ANG | (computer generated) | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NEW CASTLE COUNTY AIRPORT DELAWARE | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | JLWS909538 | $890 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 640 |
| SUPPORTING FACILITIES | | | | 134 |
| UTILITIES | LS | | | ( 16) |
| PAVEMENTS | LS | | | ( 16) |
| SITE RESTORATION | LS | | | ( 102) |
| SUBTOTAL | | | | 774 |
| CONTINGENCY (10%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 851 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 43 |
| TOTAL REQUEST | | | | 894 |
| TOTAL REQUEST (ROUNDED) | | | | 890 |

10. Description of Proposed Construction: Replace 16 tanks and remove only one other tank. Exavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST's regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require each regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST's are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST's at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST's require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

NEW CASTLE COUNTY AIRPORT DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | JLWS909538 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 SEP 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 JUL 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 44 |
| (b) All Other Design Costs | 25 |
| (c) Total | 69 |
| (d) Contract | 69 |
| (e) In-house | |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1_ 3 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NEW CASTLE COUNTY AIRPORT DELAWARE | COMMUNICATIONS FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 131-111 | JLWS001368 | $900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| COMMUNICATIONS FACILITY | SF | 8,000 | 90 | 720 |
| SUPPORTING FACILITIES | | | | 95 |
| UTILITIES | LS | | | ( 30) |
| PAVEMENTS | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| PREWIRED WORK STATIONS | LS | | | ( 30) |
| ASBESTOS REMOVAL | LS | | | ( 20) |
| SUBTOTAL | | | | 815 |
| CONTINGENCY (5%) | | | | 41 |
| TOTAL CONTRACT COST | | | | 856 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 43 |
| TOTAL REQUEST | | | | 899 |
| TOTAL REQUEST (ROUNDED) | | | | 900 |

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, built-up roof, raised computer floor, access pavement, utilities, and support. Remove and dispose of asbestos and dispose of WWII building number 2811 and a trailer for a total of 4,762 SF.
Air Conditioning: 25 Tons.

11. REQUIREMENT: 8,000 SF ADEQUATE: 0 SUBSTANDARD: 4,762 SF
PROJECT: Communications Facility (Current Mission).
REQUIREMENT: To provide a centrally located communications system, both for intra-base and off-base communications. It includes a switchboard room, frame room, administration, radio maintenance and communications, classified storage and disposition, and automated data processing.
CURRENT SITUATION: The communication function is housed in a 1941 vintage facility built for temporary housing of troops. The automated data processing activity is housed in a trailer sited in the parking lot next to the building. The facilities are not secure, there is insufficient space, rooms are poorly configured and lack proper environmental controls and utilities. There are numerous health and safety hazards; maintenance is no longer effective. The utility systems are old and undersized. The building is energy inefficient.
IMPACT IF NOT PROVIDED: Inefficient training; poor working conditions; health and safety violations; possible security compromise, and increased utilities and maintenance costs. All these factors affect the training, mission, morale and retention.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1 |

3. INSTALLATION AND LOCATION

NEW CASTLE COUNTY AIRPORT DELAWARE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| COMMUNICATIONS FACILITY | JLWS001368 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 87 DEC 18 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 89 AUG 16 |
| (d) Date Design Complete | 92 OCT 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 17 |
| (b) All Other Design Costs | 11 |
| (c) Total | 28 |
| (d) Contract | 28 |
| (e) In-house | |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>JACKSONVILLE IAP (ANG), FLORIDA | | 4. AREA CONSTR COST INDEX<br>0.87 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 annual field training days per year. Daily use of a techician force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,150 | NOV 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 23 JAN 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,200 |
| 171-450 | ADD TO AND ALTER MEDICAL TRAINING FACILITY | 9,800 | SF | 590 |
| 179-475 | SMALL ARMS SYSTEMS RANGE | 21 | FP | 750 |
| 730-142 | ADD TO AND ALTER FIRE STATION | 11,800 | SF | 580 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
JACKSONVILLE IAP (ANG), FLORIDA

11. PERSONNEL STRENGTH AS OF 1 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 365 | 27 | 337 | 1 | 1,057 | 111 | 946 |
| ACTUAL | 351 | 25 | 325 | 1 | 1,065 | 110 | 955 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 125 FG | 77 | 70 |
| 125 FG/DET | 18 | 18 |
| 159 FIS | 43 | 41 |
| 125 CAMS | 412 | 411 |
| 125 MSS | 45 | 45 |
| 125 USAF C | 55 | 57 |
| 125 CES | 136 | 127 |
| 125 SPF | 85 | 93 |
| 125 RMS | 120 | 108 |
| 125 MSF | 41 | 41 |
| 125 SVF | 25 | 24 |
| 8125 ST FLT | 0 | 30 |
| TOTALS | 1,057 | 1,065 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 A/B Aircraft | 18 | 23 |
| C-130 Aircraft | 1 | 1 |
| Support Equipment | 93 | 93 |
| Vehicle Equivalents | 197 | 201 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| JACKSONVILLE IAP ANG FLORIDA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | LSGA909642 | $1,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 850 |
| SUPPORTING FACILITIES | | | | 144 |
| UTILITIES | LS | | | ( 22) |
| PAVEMENTS | LS | | | ( 22) |
| SITE RESTORATION | LS | | | ( 100) |
| SUBTOTAL | | | | 994 |
| CONTINGENCY (10%) | | | | 99 |
| TOTAL CONTRACT COST | | | | 1,093 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 55 |
| TOTAL REQUEST | | | | 1,148 |
| TOTAL REQUEST (ROUNDED) | | | | 1,150 |

10. Description of Proposed Construction: Replace 22 tanks. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. In addition the State of Florida regulates heating oil tanks also. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JACKSONVILLE IAP ANG FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LSGA909642 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 14 |
| (d) Date Design Complete | 93 JUN 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 60 |
| (b) All Other Design Costs | 35 |
| (c) Total | 95 |
| (d) Contract | 95 |
| (e) In-house | |
| (4) Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>DOBBINS AIR FORCE BASE, GEORGIA | | 4. AREA CONSTR COST INDEX<br>0.86 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Reserve Facility, 2 Army National Guard Armories, 1 Army Reserve Facility, 1 Navy/Marine Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 121-111 | PETROLEUM OPERATIONS COMPLEX | | LS | 600 | JUL 87 | OCT 89 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,150 | NOV 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 2 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 171-443 | ADD TO SECURITY POLICE FACILITY (ANG/AFRES) | 10,350 | SF | 450 |
| 179-475 | SMALL ARMS RANGE (ANG/AFRES) | | LS | 475 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
DOBBINS AIR FORCE BASE, GEORGIA

11. PERSONNEL STRENGTH AS OF 15 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 345 | 24 | 319 | 2 | 1,211 | 114 | 1,097 |
| ACTUAL | 332 | 23 | 307 | 2 | 1,184 | 111 | 1,073 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 116 CEG SQ | 100 | 102 |
| 116 CLM SQ | 577 | 554 |
| 116 CMN FT | 42 | 41 |
| 116 MSS FT | 30 | 30 |
| 116 MSS SQ | 45 | 48 |
| 116 RMS SQ | 121 | 124 |
| 116 1FW HQ | 60 | 58 |
| 116 TCI CI | 51 | 47 |
| 116 SEP FT | 57 | 59 |
| 116 SVS FT | 34 | 32 |
| 128 TFS SQ | 58 | 55 |
| 530 BAND | 36 | 34 |
| 8116 STU FT | 0 | 0 |
| TOTALS | 1,211 | 1,184 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-15 A/B Aircraft | 24 | 28 |
| Support Equipment | 289 | 255 |
| Vehicle Equivalents | 234 | 110 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOBBINS AIR FORCE BASE GEORGIA | PETROLEUM OPERATIONS COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 121-111 | FGWB001278 | $600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PETROLEUM OPERATIONS COMPLEX | LS | | | 373 |
| PETROLEUM OPERATIONS FACILITY | SF | 1,150 | 150 | ( 173) |
| REFUELING VEHICLE PARKING | LS | | | ( 200) |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES | LS | | | ( 45) |
| PAVEMENTS | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 543 |
| CONTINGENCY (5%) | | | | 27 |
| TOTAL CONTRACT COST | | | | 570 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 29 |
| TOTAL REQUEST | | | | 599 |
| TOTAL REQUEST (ROUNDED) | | | | 600 |

10. Description of Proposed Construction: Concrete refueler truck parking area with all environmental protection. A facility consisting of masonry walls, concrete foundation, concrete floor slab and built-up roof, access road and supporting utilities. Disposal of trailer at 725 SF. Air Conditioning: 2 Tons.

11. REQUIREMENT: 1,150 SF ADEQUATE: 0 SUBSTANDARD: 725 SF

PROJECT: Petroleum Operations Complex (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Provide an environmentally safe refueler truck parking area with a facility to support training for the truck and POL operations. In addition to the area for parking six refueler vehicles, the functional areas of the building include offices, dispatch, ready room, classroom, restrooms, and storage.

CURRENT SITUATION: The refueler vehicles are operating from an environmentally unsafe area. Personnel are operating out of a leased temporary trailer. The 6 trucks that refuel the F-15 aircraft are parked on an apron which is grossly inadequate; it has no security fence or lights and no environmental protection in the event of a fuel spill; vehicles are parked under high voltage power lines and, since the apron is too small, the vehicles must be backed into parking spaces. This is an unsafe operation. The existing facility is also remote from the jet fuel storage and the test lab. This project will relocate the operations in accordance with the approved master plan.

IMPACT IF NOT PROVIDED: Continued violations of the environmental protection regulation. Anticipated Notice of Violations by state EPA. Unsafe operation of the refueling vehicles. Unprotected assets. Potential contamination of the soil and groundwater due to a fuel leak.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DOBBINS AIR FORCE BASE GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PETROLEUM OPERATIONS COMPLEX | FGWB001278 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 87 JUL 15 |
| | (b) Percent Complete as of Jan 93 | 100% |
| | (c) Date 35% Designed | 88 JUL 20 |
| | (d) Date Design Complete | 89 OCT 01 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 34 |
| | (b) All Other Design Costs | 11 |
| | (c) Total | 45 |
| | (d) Contract | 45 |
| | (e) In-house | |
| (4) | Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DOBBINS AIR FORCE BASE GEORGIA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | FGWB909577 | $1,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 820 |
| SUPPORTING FACILITIES | | | | 186 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 15) |
| SITE RESTORATION | LS | | | ( 156) |
| SUBTOTAL | | | | 1,006 |
| CONTINGENCY (10%) | | | | 101 |
| TOTAL CONTRACT COST | | | | 1,107 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 55 |
| TOTAL REQUEST | | | | 1,162 |
| TOTAL REQUEST (ROUNDED) | | | | 1,150 |

10. Description of Proposed Construction: Replace 15 tanks and remove only 11 others. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Misaion).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DOBBINS AIR FORCE BASE GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | FGWB909577 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 NOV 30 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 58 |
| (b) | All Other Design Costs | 30 |
| (c) | Total | 88 |
| (d) | Contract | 88 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
LEWIS B WILSON AIRPORT (ANG), GEORGIA

4. AREA CONSTR COST INDEX
0.84

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 340 | MAR 92 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 2 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
LEWIS B WILSON AIRPORT (ANG), GEORGIA

11. PERSONNEL STRENGTH AS OF 11 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 39 | 4 | 35 | 0 | 241 | 27 | 214 |
| ACTUAL | 39 | 4 | 35 | 0 | 198 | 23 | 175 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 202 EIS | 241 | 198 |
| TOTALS | 241 | 198 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 55 | 54 |
| Vehicle Equivalents | 127 | 57 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| MCCOLLUM ANG STATION, GEORGIA | 0.00 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 315 | NOV 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 2 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
MCCOLLUM ANG STATION, GEORGIA

11. PERSONNEL STRENGTH AS OF 11 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 39 | 4 | 35 | 0 | 316 | 33 | 283 |
| ACTUAL | 39 | 4 | 35 | 0 | 287 | 27 | 260 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 129 ACS | 237 | 211 |
| 118 ACS | 79 | 76 |
| TOTALS | 316 | 287 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 8 | 8 |
| Vehicle Equivalents | 479 | 212 |

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION<br>SAVANNAH ANG COMMUNICATIONS STATION, GEORGIA | | 4. AREA CONSTR COST INDEX 0.77 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician force and traditional guardsmen for 365 days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Active Duty Army Base, 2 Air National Guard, 2 Army National Guard, 1 Army Reserve, 1 Naval Reserve, 1 Coast Guard

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 330 | NOV 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 2 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SAVANNAH ANG COMMUNICATIONS STATION, GEORGIA

11. PERSONNEL STRENGTH AS OF 10 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 29 | 2 | 27 | 0 | 236 | 8 | 228 |
| ACTUAL | 33 | 1 | 32 | 0 | 188 | 7 | 181 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 283 CMBT | 236 | 188 |
| TOTALS | 236 | 188 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Comm-Elec Equipment | 22 | 20 |
| Support Equipment | 45 | 26 |
| Vehicle Equivalents | 303 | 387 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SAVANNAH INTERNATIONAL AIRPORT, GEORGIA

4. AREA CONSTR COST INDEX
0.77

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training. Used by visiting units when deployed to the Combat Readiness Training Center.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Base, 2 Air National Guard, 2 Army National Guard, 1 Army Reserve, 1 Naval Reserve and 1 Coast Guard

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | 315 | NOV 91 | JUN 93 |
| 214-467 | REFUELING VEHICLE PARKING AND OPERATIONS COMPLEX | LS | | 990 | NOV 91 | JUL 93 |
| 880-232 | FIRE DETECTION AND SUPPRESSION SYSTEMS | LS | | 1,650 | FEB 83 | DEC 86 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 2 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 179-511 | FIREMEN TRAINING FACILITY | LS | | 680 |
| 211-152 | ALTER AIRCRAFT MAINTENANCE SHOPS | 40,700 | SF | 1,150 |
| 442-758 | BASE SUPPLY AND CIVIL ENGINEER COMPLEX | 86,600 | SF | 6,000 |
| 730-142 | FIRE STATION | 11,000 | SF | 1,350 |
| 730-835 | SECURITY POLICE OPS | 5,600 | SF | 680 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SAVANNAH INTERNATIONAL AIRPORT, GEORGIA

11. PERSONNEL STRENGTH AS OF 10 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 329 | 31 | 272 | 26 | 1,010 | 130 | 880 |
| ACTUAL | 339 | 31 | 282 | 26 | 1,033 | 136 | 897 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 165 TAL GP | 57 | 57 |
| 165 MSS SQ | 45 | 46 |
| 165 SVS FT | 25 | 24 |
| 165 TCI CI | 64 | 63 |
| 165 TAL SQ | 96 | 112 |
| 165 CLM SQ | 172 | 170 |
| 165 RMS SQ | 120 | 130 |
| 165 SEP FT | 57 | 62 |
| 165 CEG SQ | 148 | 151 |
| 165 CMN FT | 21 | 20 |
| 165 MSS FT | 41 | 39 |
| 165 MAP SQ | 106 | 101 |
| CRTC GA | 58 | 58 |
| TOTALS | 1,010 | 1,033 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 8 | 9 |
| Support Equipment | 3,415 | 3,128 |
| Vehicle Equivalents | 604 | 604 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SAVANNAH INTERNATIONAL AIRPORT GEORGIA | FIRE DETECTION AND SUPPRESSION SYSTEMS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 880-232 | XDQU000038 | $1,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE DETECTION AND SUPPRESSION SYSTEMS | LS | | | 1,150 |
| SUPPRESSION SYSTEM | LS | | | ( 900) |
| ALARM SYSTEM | LS | | | ( 250) |
| SUPPORTING FACILITIES | | | | 260 |
| UTILITIES | LS | | | ( 220) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 1,410 |
| CONTINGENCY (10%) | | | | 141 |
| TOTAL CONTRACT COST | | | | 1,551 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 78 |
| TOTAL REQUEST | | | | 1,629 |
| TOTAL REQUEST (ROUNDED) | | | | 1,650 |

10. Description of Proposed Construction: A base-wide automatic fire alarm and suppression system. Includes automatic fire detection in each facility. The fire suppression system includes an under-the-wing system, wet pipe sprinkler systems, dry pipe sprinkler system, and hose reel stations. All utilities and support.

11. REQUIREMENT: As required.

PROJECT: Fire Detection and Suppression Systems (Current Mission).

REQUIREMENT: The ANG Combat Readiness Training Site has numerous troop quarter facilities, combat support facilities and aircraft maintenance facilities. The 165 AG has support facilities and operational facilities. These facilities must be protected to prevent injury or loss of lives and equipment.

CURRENT SITUATION: The base does not have an automatic fire reporting and suppression system required by Federal and State Fire Codes. The only fire alarm systems installed that are centrally controlled are in a few of the troop quarters and the recently constructed engine shop. This project will protect assets in excess of $90 million as well as local personnel that are stationed here or personnel that deploy to this base for training.

IMPACT IF NOT PROVIDED: Violation of codes. Accept the risk. Equipment remains unprotected. Personnel sleeping in quarters are at risk. OSHA regulations will be violated.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SAVANNAH INTERNATIONAL AIRPORT GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE DETECTION AND SUPPRESSION SYSTEMS | XDQU000038 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 83 FEB 24 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 84 OCT 15 |
| (d) Date Design Complete | 86 DEC 11 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 35 |
| (b) All Other Design Costs | 22 |
| (c) Total | 57 |
| (d) Contract | 57 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SAVANNAH INTERNATIONAL AIRPORT GEORGIA | REFUELING VEHICLE PARKING AND OPERATIONS COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 214-467 | XDOU919575 | $990 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REFUELING VEHICLE PARKING AND OPERATIONS | LS | | | 480 |
| REFUELING VEHICLE PARKING | LS | | | ( 340) |
| POL OPERATIONS READY ROOM (800 SF) | LS | | | ( 140) |
| SUPPORTING FACILITIES | | | | 380 |
| UTILITIES AND ACCESS PAVEMENTS | LS | | | ( 280) |
| SITE IMPROVEMENTS/DRAINAGE | LS | | | ( 100) |
| SUBTOTAL | | | | 860 |
| CONTINGENCY (10%) | | | | 86 |
| TOTAL CONTRACT COST | | | | 946 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 47 |
| TOTAL REQUEST | | | | 993 |
| TOTAL REQUEST (ROUNDED) | | | | 990 |

10. Description of Proposed Construction: Concrete, brick and steel operations facility, refueling vehicle concrete paving and all utilities and support. Environmental controls for fuel spills.
Air Conditioning: 3 Tons.

11. REQUIREMENT: As required.
PROJECT: Refueling Vehicle Parking and Operations Complex (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. A facility for the parking of jet fuel refueler vehicles, a dispatch room and a ready room for vehicle drivers is required. The area must have environmental controls and be secure from outside threats. This required facility will be for joint use between the Training Center and the flying unit colocated at this location.
CURRENT SITUATION: The existing refueler parking area does not comply with environmental standards. Located in a remote area, the existing system is an environmental hazard. Some refuelers have to park in areas not designed to accept accidential fuel spills. Existing parking areas are not sloped for proper drainage and collection of fuel spills. No oil/water separators exist. The existing fuel lab has insufficient space for the lab equipment and proper tests cannot be performed. Drivers do not have an adequate area for dispatch.
IMPACT IF NOT PROVIDED: Possible shut down of the fuel complex. There exists a high potential for environmental contamination from leaking refueler trucks. Live with the risk for safety and environmental hazards and additional costs. Parking of refuelers continues to be separated and remote areas without the required environmental protection.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SAVANNAH INTERNATIONAL AIRPORT GEORGIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REFUELING VEHICLE PARKING AND OPERATIONS COMPLEX | XDQU919575 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 04 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 33 |
| (b) All Other Design Costs | 20 |
| (c) Total | 53 |
| (d) Contract | 53 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| HICKAM AIR FORCE BASE, HAWAII | 1.39 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army Installations, 1 Army Reserve Facility, 1 Air Force Base, 1 Air National Guard Unit, 2 Naval Installations, 1 Marine Corps Reserve Center, 4 Army National Guard Installations

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-179 | FUEL SYSTEM MAINTENANCE AND CORROSION CONTROL FACILITY | 17,000 SF | 5,300 | SEP 89 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 28 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 670 |
| 219-944 | BASE ENGINEER MAINTENANCE FACILITY | 18,700 SF | 3,500 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HICKAM AIR FORCE BASE, HAWAII

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 409 | 5 | 52 | 352 | 1,307 | 271 | 1,036 |
| ACTUAL | 370 | 5 | 62 | 303 | 1,208 | 111 | 1,097 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| HQ | HI ANG | 30 | 31 |
| 154 | SVS | 34 | 30 |
| 154 | AC SQ | 91 | 70 |
| 154 | ACW | 66 | 66 |
| 154 | MSS | 45 | 43 |
| 154 | COMPG | 64 | 57 |
| 154 | CAM | 587 | 554 |
| 154 | TAC HP | 83 | 71 |
| 154 | CE SQ | 100 | 87 |
| 154 | SPF | 41 | 43 |
| 154 | RMS | 133 | 126 |
| 154 | MSF | 33 | 30 |
| | TOTALS | 1,307 | 1,208 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-15C Aircraft | 24 | 26 |
| C-130H Aircraft | 1 | 1 |
| KC-135R Aircraft | 4 | 0 |
| Support Equipment | 280 | 260 |
| Vehicle Equivalents | 138 | 138 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HICKAM AIR FORCE BASE HAWAII | FUEL SYSTEM MAINTENANCE AND CORROSION CONTROL FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-179 | KNMD889757 | $5,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FUEL SYSTEM/CORROSION CONTROL FACILITY | SF | 17,000 | 160 | 2,720 |
| SUPPORTING FACILITIES | | | | 2,050 |
| UTILITIES | LS | | | ( 200) |
| AIRCRAFT PARKING PAVEMENTS | LS | | | ( 1,100) |
| SITE IMPROVEMENTS AND DEMOLITION | LS | | | ( 200) |
| FIRE PROTECTION SYSTEM | LS | | | ( 550) |
| SUBTOTAL | | | | 4,770 |
| CONTINGENCY (5%) | | | | 239 |
| TOTAL CONTRACT COST | | | | 5,009 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 250 |
| TOTAL REQUEST | | | | 5,259 |
| TOTAL REQUEST (ROUNDED) | | | | 5,300 |

10. Description of Proposed Construction: A dock with foundation, concrete floor slabs, built-up roof, mechanical, electrical and structural system with concrete access to apron. Mechanical ventilation systems, drainage with oil-water separator, fire suppression, personnel breathing apparatus. Additional pavements required to meet clearance requirements between parked aircraft and buildings. Demolish building 3411 (5,466 SF). Air Conditioning: 20 Tons.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 5,466 SF
PROJECT: Fuel System Maintenance and Corrosion Control Facility (New Mission).
REQUIREMENT: This project supports the conversion from F-4 to F-15 aircraft and is also a level II environmental compliance project. An adequately sized an properly configured facility with the proper environmental controls is required for the repair of aircraft fuel cells and bladders and the performance of corrosion control. Functional areas include fuel cell hangar bay, corrosion control hangar bay, bladder repair shop, support shop space and access apron. A fire suppression system, including storage of water and fire fighting agents is necessary to protect multi-million dollar resources that are to be maintained and repaired in this facility. Additional apron for clearance between aircraft and fuel systems maintenance hangar is required.
CURRENT SITUATION: Fuel cell and corrosion control work is currently being done in an open ended aircraft shelter, Building 3411. The facility lacks environmental controls in the fact that there is no ventilation system for safety and the prevention of air pollution and there is no air/water separator to prevent soil and water pollution from fuels spills or corrosion control work involving solvent cleaning or aircraft parts

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION .

HICKAM AIR FORCE BASE HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FUEL SYSTEM MAINTENANCE AND CORROSION CONTROL FACILITY | KNMD889757 |

painting. Corrosion control work cannot be performed during fuel cell repair because of potential contamination of the fuel bladders. The shelter provides only a covered area. Fuel cell work cannot be accomplished when the wind is blowing. The wind will blow particles into the open fuel cell contaminating the fuel. The shelter cannot be economically upgraded for either fuel cell work or corrosion control. It is not correctly sited, there is no room for expansion and it lacks utility support. It is 5,466 SF and will be demolished. Currently there is a constant backlog of aircraft that require either fuel cell or corroaion control work. The need for corrosion control is extremely severe due to over water flying. Additional pavement is necessary because currently there is not enough parking spaces that are outside the required clearance radius of the new facility.

IMPACT IF NOT PROVIDED: Continued fuel cell repair in an inadequate and unsafe facility. Inability to perform corrosion control when fuel cell work is in progress contributes to the degradation of high cost aircraft and flight safety. Lack of enviromental controls for prevention of air, soil and water pollution create a potential for violation of statutes.

ADDITIONAL: An exception to the economic analysis has been prepared. The project directly supports a mission or activity for which there is no available alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

HICKAM AIR FORCE BASE HAWAII

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FUEL SYSTEM MAINTENANCE AND CORROSION CONTROL FACILITY | KNMD889757 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 SEP 15 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 AUG 25 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 164 |
| (b) | All Other Design Costs | 29 |
| (c) | Total | 193 |
| (d) | Contract | 193 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>BOISE AIR TERMINAL (GOWEN FIELD), IDAHO | | 4. AREA CONSTR COST INDEX<br>1.03 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Facility, 1 Army Reserve Facility, 1 Naval Reserve Facility and 1 Marine Corp Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | FIRE STATION AND AGE FACILITY | 17,000 SF | 1,750 | JUL 91 | MAY 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 6 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE DERA USTS | LS | 500 |
| 171-450 | MEDICAL TRAINING FACILITY (ANG/ARNG) | 13,000 SF | 1,170 |
| 211-111 | UPGRADE MAINTENANCE HANGAR | 61,000 SF | 2,600 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BOISE AIR TERMINAL (GOWEN FIELD), IDAHO

11. PERSONNEL STRENGTH AS OF 25 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 672 | 71 | 510 | 91 | 1,476 | 184 | 1,292 |
| ACTUAL | 620 | 63 | 458 | 99 | 1,373 | 176 | 1,197 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| HQ | ID ANG | 28 | 28 |
| 124 | MSS SQ | 45 | 47 |
| 124 | MSS FT | 45 | 44 |
| 124 | CAM SQ | 560 | 460 |
| 124 | TAC CL | 51 | 44 |
| 124 | SVS FT | 34 | 31 |
| 124 | RMS SQ | 120 | 124 |
| 124 | SPF SQ | 57 | 60 |
| 124 | CF FT | 21 | 19 |
| 124 | CES SQ | 136 | 143 |
| 124 | HQ SQ | 65 | 52 |
| 189 | TRT FT | 196 | 171 |
| 190 | TRS SQ | 78 | 90 |
| 124 | STU FT | 40 | 60 |
| | TOTALS | 1,476 | 1,373 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| RF-4G Aircraft | 36 | 31 |
| RF-4C Aircraft | 12 | 12 |
| C-26 Aircraft | 1 | 1 |
| Support Equipment | 323 | 318 |
| Vehicle Equivalents | 308 | 318 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BOISE AIR TERMINAL (GOWEN FIELD) IDAHO | FIRE STATION AND AGE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | BXRH919655 | $1,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION AND AGE FACILITY | SF | 17,000 | | 1,360 |
| FIRE STATION | SF | 11,000 | 110 | ( 1,210) |
| ALTER AIRCRAFT GROUND EQUIPMENT SHOP | SF | 6,000 | 25 | ( 150) |
| SUPPORTING FACILITIES | | | | 240 |
| UTILITIES | LS | | | ( 80) |
| PAVEMENTS | LS | | | ( 90) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| DEMOLITION | LS | | | ( 30) |
| SUBTOTAL | | | | 1,600 |
| CONTINGENCY (5%) | | | | 80 |
| TOTAL CONTRACT COST | | | | 1,680 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 84 |
| TOTAL REQUEST | | | | 1,764 |
| TOTAL REQUEST (ROUNDED) | | | | 1,750 |

10. Description of Proposed Construction: Reinforced concrete floors and walls including necessary structural, mechanical and electrical systems. Concrete pavements and driveways. All exterior utilities and support. Alter existing fire station by reworking interior for different function. Demolish Building 154 at 5,300 SF.
Air Conditioning: 8 Tons.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 11,300 SF
PROJECT: Fire Station and AGE Facility (Current Mission).
REQUIREMENT: An adequately sized and properly configured facility is required to support Crash/Fire/Rescue operations and Aircraft Ground Support Equipment (AGE) equipment. Facility will include apparatus bays, storage space, extinguisher maintenance shop, kitchen and dining area, control room, classroom, administrative area and bunk rooms for 24 hour operation by full time fire fighters. An adequately sized and properly configured shop is required to support the aircraft ground equipment maintenance and repair shop that provides for day to day operations and the training of personnel assigned to that functional area.
CURRENT SITUATION: The existing fire station is too small to adequately house the fire protection and crash/rescue operations. Only six of the nine fire fighting vehicles can fit into the undersized apparatus baya. The severe winters require indoor housing of fire fighting vehicles in order to respond to emergencies; this is impossible with the current fire station. In addition, the classroom doubles as an undersized bunk room, which cramps operations and contributes to health problems. Kitchen and bath accommodations are inadequate. The existing aircraft ground equipment support shop is in an undersized and poorly configured facility that must be demolished to provide room for future flightline facilities

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BOISE AIR TERMINAL (GOWEN FIELD) IDAHO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION AND AGE FACILITY | BXRH919655 |

invisioned by the Master Plan.
IMPACT IF NOT PROVIDED: Fire fighting apparatus remains exposed to the weather, which accelerates deterioration and renders some vehicles useless due to freezing conditions in the winter. Impacts on the overall fire protection operation would ultimately jeopardize aircraft safety. Inadequate facilities for the day to day operations and the weekend training of aircraft support shops affect the training mission. Lost training opportunities. Higher operating costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BOISE AIR TERMINAL (GOWEN FIELD) IDAHO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION AND AGE FACILITY | BXRH919655 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 JUL 02 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 JUL 15 |
| (d) Date Design Complete | 93 MAY 02 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 86 |
| (b) All Other Design Costs | 28 |
| (c) Total | 114 |
| (d) Contract | 114 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
CAPITAL MUNICIPAL AIRPORT ANG, ILLINOIS

4. AREA CONSTR COST INDEX
1.01

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Installation and 1 Army Reserve Training Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 871-183 | ALTER STORM DRAINAGE DISPOSAL | LS | 500 | AUG 92 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 SEP 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 15,300 SF | 2,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
CAPITAL MUNICIPAL AIRPORT ANG, ILLINOIS

11. PERSONNEL STRENGTH AS OF 11 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 355 | 27 | 275 | 53 | 1,172 | 117 | 1,055 |
| ACTUAL | 341 | 25 | 265 | 51 | 1,175 | 120 | 1,055 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 170 TFS SQ | 58 | 55 |
| 183 TFG HQ | 56 | 58 |
| 183 MSS SQ | 46 | 49 |
| 183 SEP FT | 57 | 58 |
| 183 CLM SQ | 547 | 490 |
| 183 TCI CI | 69 | 69 |
| 183 RMS SQ | 120 | 124 |
| 183 CMN FT | 21 | 19 |
| 183 CEG SQ | 124 | 115 |
| 183 SVS FT | 34 | 31 |
| 183 MSS FT | 40 | 41 |
| 8183 STU FT | 0 | 66 |
| TOTALS | 1,172 | 1,175 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 27 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 313 | 310 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAPITAL MUNICIPAL AIRPORT ANG ILLINOIS | ALTER STORM DRAINAGE DISPOSAL |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 871-183 | DCFT929896 | $500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER STORM DRAINAGE DISPOSAL | LS | | | 430 |
| SUBTOTAL | | | | 430 |
| CONTINGENCY (10%) | | | | 43 |
| TOTAL CONTRACT COST | | | | 473 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 24 |
| TOTAL REQUEST | | | | 497 |
| TOTAL REQUEST (ROUNDED) | | | | 500 |

10. Description of Proposed Construction: Construct a series of valves to shut off the base storm sewer.

11. REQUIREMENT: As required.

PROJECT: Alter Storm Drainage Disposal (Current Mission).

REQUIREMENT: This a level II environmental compliance project. A means and method to contain major spills on base to prevent contamination of the natural stream immediately off base is required.

CURRENT SITUATION: The base storm sewer system discharges off-base into a stream. The inlets to the storm system are dispersed throughout the base along base roads and the aircraft parking apron. Along these roads and aircraft parking apron travel 10,000 gallon commercial JP-4 jet fuel tanker trucks and 6,000 gallon ANG refuelers. Refueling activities take place on the aircraft parking ramp. In the event of a major spill the fuel will flow to the nearest storm drain and off base to the downstream waterway with no means to adequately contain the flow.

IMPACT IF NOT PROVIDED: Risk of a major fuel spill with no means to contain the product on ANG property. Spill material could be discharged into the environment. Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations. ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

CAPITAL MUNICIPAL AIRPORT ANG ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER STORM DRAINAGE DISPOSAL | DCFT929896 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 01 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 25 |
| (b) All Other Design Costs | 8 |
| (c) Total | 33 |
| (d) Contract | 33 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>GREATER PEORIA AIRPORT ANG, ILLINOIS | | 4. AREA CONSTR COST INDEX<br>0.97 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, four rescheduled unit training assemblies, 15 days annual training per year, daily use by technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Naval Reserve, 1 Marine Corps Reserve, 1 Army Reserve Center and 1 Coast Guard Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 217-712 | ADD TO AND ALTER F-16 AIRCRAFT AVIONICS SHOP | 12,700 SF | 840 | FEB 91 | FEB 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 SEP 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 216-642 | ADD TO AND ALTER MUNITIONS STORAGE COMPLEX | 17,900 SF | 1,700 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
GREATER PEORIA AIRPORT ANG, ILLINOIS

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 296 | 7 | 49 | 240 | 1,230 | 139 | 1,091 |
| ACTUAL | 289 | 7 | 49 | 233 | 1,208 | 140 | 1,068 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 169 FS | 49 | 56 |
| 182 CES | 124 | 128 |
| 182 ASOC | 116 | 111 |
| 182 CAM | 460 | 368 |
| 182 MSF | 40 | 39 |
| 182 MSS | 46 | 46 |
| 182 RMS | 120 | 115 |
| 182 HQ FG | 59 | 54 |
| 182 CLN | 69 | 59 |
| 182 SPF | 57 | 63 |
| 182 SVS FT | 25 | 21 |
| 182 ACP | 65 | 60 |
| 8182 STU FT | 0 | 88 |
| TOTALS | 1,230 | 1,208 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 11 |
| C-26A Aircraft | 1 | 1 |
| Support Equipment | 16 | 15 |
| Vehicle Equivalents | 305 | 256 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GREATER PEORIA AIRPORT ANG ILLINOIS | ADD TO AND ALTER F-16 AIRCRAFT AVIONICS SHOP |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 217-712 | JLQN919574 | $840 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER AIRCRAFT AVIONICS SHOP | SF | 12,700 | | 689 |
| ADD TO AVIONICS | SF | 5,400 | 87 | ( 470) |
| ALTER AVIONICS | SF | 7,300 | 30 | ( 219) |
| SUPPORTING FACILITIES | | | | 70 |
| UTILITIES | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 759 |
| CONTINGENCY (5%) | | | | 38 |
| TOTAL CONTRACT COST | | | | 797 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 40 |
| TOTAL REQUEST | | | | 837 |
| TOTAL REQUEST (ROUNDED) | | | | 840 |

10. Description of Proposed Construction: Steel frame with concrete block insulated walls, built up roof on steel bar joists, upgrade mechanical system, dry wall ceilings. Exterior to match existing. All utilities and support.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 12,700 SF ADEQUATE: 0 SUBSTANDARD: 7,300 SF
PROJECT: Add to and Alter F-16 Aircraft Avionics Shop (New Mission).
REQUIREMENT: The base requires a properly sized and adequately configured facility in which to accomplish the maintenance, inspection and repair of the avionics components. This project supports the conversion from OA-37 to F-16 aircraft in July 1992.
CURRENT SITUATION: The existing facility does not meet the requirements for the F-16 aircraft. The facility is undersized and not correctly configured. Space is particularly short in the areas of Precision Measurement Equipment Lab (PMEL) and Electronic Counter Measures (ECM) pod maintenance and storage. Temporary work arounds are being used such as shipping components for repair to other locations or using avionics parts from the War Readiness Supply Kits. The ECM equipment is stored in an area that is not secure.
IMPACT IF NOT PROVIDED: Unable to reach full operational capability. Training is curtailed and not efficiently done. The number of aircraft ready for training is less than satisfactory. Some will be grounded for lack of avionics parts. Flying safety is adversely impacted.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

GREATER PEORIA AIRPORT ANG ILLINOIS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER F-16 AIRCRAFT AVIONICS SHOP | JLQN919574 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 FEB 04 |
| (b) | Percent Complete as of Jan 93 | 95% |
| (c) | Date 35% Designed | 92 JUN 05 |
| (d) | Date Design Complete | 93 FEB 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 52 |
| (b) | All Other Design Costs | 28 |
| (c) | Total | 80 |
| (d) | Contract | 80 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>FORT WAYNE MUNICIPAL AIRPORT, INDIANA | | 4. AREA CONSTR COST INDEX<br>1.01 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Army Reserve Center, 1 Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,350 | SEP 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 FEB 93 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | UPGRADE JET FUEL DISTRIBUTION SYSTEM | | LS | 1,200 |
| 211-179 | FUEL SYSTEMS MAINTENANCE AND CORROSION CONTROL FACILITY | 28,000 | SF | 3,200 |
| 442-758 | BASE SUPPLY COMPLEX | 35,000 | SF | 4,000 |
| 722-351 | DINING AND MEDICAL TRAINING FACILITY | 36,500 | SF | 3,950 |
| 730-142 | FIRE STATION AND AGE SHOP | 13,500 | SF | 1,750 |
| 851-147 | BASE ENTRY COMPLEX | | LS | 390 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FORT WAYNE MUNICIPAL AIRPORT, INDIANA

11. PERSONNEL STRENGTH AS OF 10 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 393 | 26 | 303 | 64 | 1,234 | 124 | 1,110 |
| ACTUAL | 385 | 26 | 297 | 62 | 1,278 | 131 | 1,147 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 122 | TFG HQ | 59 | 64 |
| 122 | MSS SQ | 46 | 48 |
| 122 | SPF | 57 | 65 |
| 122 | MSS FT | 41 | 36 |
| 163 | TFT SQ | 63 | 67 |
| 122 | CAMS | 559 | 534 |
| 122 | CEG SQ | 124 | 135 |
| 122 | SVS FT | 27 | 31 |
| 122 | RMS SQ | 121 | 135 |
| 122 | CMN FT | 21 | 25 |
| 122 | TAC HP | 50 | 58 |
| 235 | ATCF | 66 | 80 |
| | TOTALS | 1,234 | 1,278 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 C/D Aircraft | 24 | 24 |
| C-26 Aircraft | 1 | 1 |
| Support Equipment | 180 | 160 |
| Vehicle Equivalents | 126 | 126 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FORT WAYNE INTERNATIONAL AIRPORT INDIANA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | AT0Z909629 | $1,350 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 980 |
| SUPPORTING FACILITIES | | | | 202 |
| UTILITIES | LS | | | ( 23) |
| PAVEMENTS | LS | | | ( 23) |
| SITE RESTORATION | LS | | | ( 156) |
| SUBTOTAL | | | | 1,182 |
| CONTINGENCY (10%) | | | | 118 |
| TOTAL CONTRACT COST | | | | 1,300 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 65 |
| TOTAL REQUEST | | | | 1,365 |
| TOTAL REQUEST (ROUNDED) | | | | 1,350 |

10. Description of Proposed Construction: Replace 23 tanks and remove only 3 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The USTs at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated USTs require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

FORT WAYNE INTERNATIONAL AIRPORT INDIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | AT0Z909629 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 SEP 16 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 JUL 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 68 |
| (b) | All Other Design Costs | 30 |
| (c) | Total | 98 |
| (d) | Contract | 98 |
| (e) | In-house | |
| (4) | Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>HULMAN REGIONAL AIRPORT, INDIANA | | 4. AREA CONSTR COST INDEX<br>1.02 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Unit and 1 Naval Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | 950 | SEP 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 FEB 93 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 131-111 | COMPOSITE SUPPORT FACILITY | 20,300 | SF | 3,150 |
| 211-179 | FUEL CELL AND CORROSION CONTROL FACILITY | 28,000 | SF | 3,600 |
| 219-944 | BASE CIVIL ENGINEER MAINTENANCE COMPLEX | 20,700 | SF | 2,800 |
| 722-351 | DINING HALL AND MEDICAL TRAINING FACILITY | 31,500 | SF | 3,750 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HULMAN REGIONAL AIRPORT, INDIANA

11. PERSONNEL STRENGTH AS OF 15 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 355 | 23 | 269 | 63 | 1,167 | 139 | 1,028 |
| ACTUAL | 352 | 23 | 269 | 60 | 1,327 | 144 | 1,183 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 181 FG GP | 56 | 56 |
| 113 GF GP | 51 | 61 |
| 181 MSS SQ | 45 | 44 |
| 181 CAM | 460 | 488 |
| 181 RMS SQ | 119 | 126 |
| 181 CES SQ | 124 | 129 |
| 181 WS SF | 57 | 64 |
| 181 TCI CI | 73 | 66 |
| 181 MSF | 41 | 38 |
| 181 COM FT | 21 | 24 |
| 113 WEA FT | 13 | 18 |
| 207 WEA FT | 21 | 20 |
| 181 STD FT | 0 | 105 |
| HQ IN ANG | 31 | 29 |
| ATTE RANGE | 17 | 16 |
| JPG RANGE | 11 | 11 |
| 181 SVS FT | 27 | 32 |
| TOTALS | 1,167 | 1,327 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16C Aircraft | 18 | 20 |
| Support Equipment | 110 | 100 |
| Vehicle Equivalents | 139 | 139 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HULMAN REGIONAL AIRPORT INDIANA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | LDXF909627 | $950 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 680 |
| SUPPORTING FACILITIES | | | | 145 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 15) |
| SITE RESTORATION | LS | | | ( 115) |
| SUBTOTAL | | | | 825 |
| CONTINGENCY (10%) | | | | 83 |
| TOTAL CONTRACT COST | | | | 908 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 45 |
| TOTAL REQUEST | | | | 953 |
| TOTAL REQUEST (ROUNDED) | | | | 950 |

10. Description of Proposed Construction: Replace 15 tanks and remove only 4 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The USTs at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated USTs require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

HULMAN REGIONAL AIRPORT INDIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LDXF909627 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 SEP 16 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 36 |
| (b) All Other Design Costs | 16 |
| (c) Total | 52 |
| (d) Contract | 52 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>DES MOINES INTERNAT' AIRPORT ANG, IOWA | | 4. AREA CONSTR COST INDEX<br>0.99 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Reserve Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 880 | NOV 91 | JUN 93 |
| 722-351 | ADD TO AND ALTER DINING AND MEDICAL TRAINING FACILITY | 22,700 | SF | 1,800 | MAR 90 | DEC 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 3 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | | LS | 1,260 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 14,300 | SF | 2,150 |
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 17,900 | SF | 3,250 |
| 218-712 | AIRCRAFT SUPPORT EQUIPMENT SHOP | 6,200 | SF | 1,150 |
| 730-835 | SECURITY POLICE OPERATIONS AND BASE ENTRY COMPLEX | 6,700 | SF | 2,150 |
| 880-232 | FIRE SUPPRESSION SYSTEM | | LS | 1,950 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
DES MOINES INTERNAT' AIRPORT ANG, IOWA

11. PERSONNEL STRENGTH AS OF 31 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 358 | 29 | 265 | 64 | 1,088 | 120 | 968 |
| ACTUAL | 376 | 28 | 286 | 62 | 1,053 | 120 | 933 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 124 | FT SQ | 56 | 67 |
| 132 | FW HQ | 62 | 58 |
| 132 | CES SQ | 124 | 122 |
| 132 | MNT SQ | 476 | 441 |
| 132 | RMS SQ | 120 | 124 |
| 132 | MSS SQ | 45 | 44 |
| 132 | MSS FT | 41 | 40 |
| 132 | TAC HP | 73 | 64 |
| 132 | SEP FT | 57 | 56 |
| 132 | SVS FT | 34 | 37 |
| | TOTALS | 1,088 | 1,053 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 5 |
| A-7 Aircraft | 0 | 18 |
| C-12J Aircraft | 1 | 1 |
| Support Equipment | 121 | 121 |
| Vehicle Equivalents | 260 | 260 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DES MOINES INTERNAT'L AIRPORT ANG IOWA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 56256F | 124-135 | FFAN909607 | $880 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 620 |
| SUPPORTING FACILITIES | | | | 138 |
| PAVEMENTS | LS | | | ( 12) |
| UTILITIES | LS | | | ( 12) |
| SITE RESTORATION | LS | | | ( 114) |
| SUBTOTAL | | | | 758 |
| CONTINGENCY (10%) | | | | 76 |
| TOTAL CONTRACT COST | | | | 834 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 42 |
| TOTAL REQUEST | | | | 876 |
| TOTAL REQUEST (ROUNDED) | | | | 880 |

10. Description of Proposed Construction: Replace 12 tanks and remove only 6 others. Excavate and remove tanks. Dispose of tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The USTs at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated USTs require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DES MOINES INTERNAT'L AIRPORT ANG IOWA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | FFAN909607 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 43 |
| (b) | All Other Design Costs | 16 |
| (c) | Total | 59 |
| (d) | Contract | 59 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DES MOINES INTERNAT'L AIRPORT ANG IOWA | ADD TO AND ALTER DINING AND MEDICAL TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 722-351 | FFAN889690 | $1,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER DINING AND MEDICAL TRAINING | SF | 22,700 | | 1,334 |
| ALTER DINING HALL | SF | 6,400 | 40 | ( 256) |
| ADD TO DINING HALL | SF | 4,600 | 100 | ( 460) |
| ALTER MEDICAL TRAINING | SF | 6,500 | 35 | ( 228) |
| ADD TO MEDICAL TRAINING | SF | 3,200 | 100 | ( 320) |
| ALTER OPERATIONS AND TRAINING | SF | 2,000 | 35 | ( 70) |
| SUPPORTING FACILITIES | | | | 295 |
| UTILITIES | LS | | | ( 55) |
| PAVEMENTS/SITE IMPROVEMENTS | LS | | | ( 110) |
| PREWIRED WORK STATIONS | LS | | | ( 130) |
| SUBTOTAL | | | | 1,629 |
| CONTINGENCY (5%) | | | | 81 |
| TOTAL CONTRACT COST | | | | 1,710 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 86 |
| TOTAL REQUEST | | | | 1,796 |
| TOTAL REQUEST (ROUNDED) | | | | 1,800 |

10. Description of Proposed Construction: Addition: Reinforced concrete foundation and floor slab, masonry walls and roof structure. Exterior addition to match existing facility. Alteration: Relocate interior walls and extend utilities. Provide prewired work stations, all utilities, pavements, and site improvements.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 22,700 SF ADEQUATE: 0 SUBSTANDARD: 14,900 SF
PROJECT: Add to and Alter Dining and Medical Training Facility (Current Mission).
REQUIREMENT: An adequately sized and properly configured facility is required to provide medical care and services training that includes food preparation and messing and to provide administrative and training spaces for the operations and training function. A composite facility is necessary for the day to day operations and for the weekend forces to be trained.
CURRENT SITUATION: The increase in personnel to over 1,000 people together with new requirements for medical testing has caused overloading of the facility. The USAF Health Services Maintenance Inspections have identified the lack of space for medical training and support for the troops as critical deficiencies. The undersized dining facility causes crowding in the food preparation area and very long waiting lines at mealtimes. This results in lost training hours. The operations and training spaces will have to be renovated as the additions and alterations to the other spaces take place. This will allow for the reorganization of this function within their authorized square footage. This project is in accordance with the approved comprehensive master plan.
IMPACT IF NOT PROVIDED: Insufficient and inadequate medical training for

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DES MOINES INTERNAT'L AIRPORT ANG IOWA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING AND MEDICAL TRAINING FACILITY | FFAN889690 |

the weekend and full time forces. Loss of training opportunities as the personnel spend considerable time in waiting lines at the dining hall and the medical facility. Continued inefficient operations and inefficient use of the space. Decline in troop morale, retention and mission accomplishment.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DES MOINES INTERNAT'L AIRPORT ANG IOWA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER DINING AND MEDICAL TRAINING FACILITY | FFAN889690 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 90 MAR 16 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 91 AUG 06 |
| (d) | Date Design Complete | 92 DEC 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 54 |
| (b) | All Other Design Costs | 22 |
| (c) | Total | 76 |
| (d) | Contract | 76 |
| (e) | In-house | |
| (4) | Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>FORBES FIELD ANG, KANSAS | | 4. AREA CONSTR COST INDEX<br>0.90 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Coast Guard Facility, 1 State Headquarters Facility, 1 Marine Reserve Facility, 1 Army Aviation Facility, 1 Naval Reserve Facility, 1 Army Reserve Center, 1 USPFO Facility and 1 Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,400 | JUN 91 | APR 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 9 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 116-665 | POWER CHECK PAD WITH SOUND SUPPRESSOR | | LS | 600 |
| 124-135 | SITE RESTORATION AND FUEL STORAGE TANK REMOVAL | | LS | 2,000 |
| 171-450 | MEDICAL TRAINING FACILITY | 22,300 | SF | 1,900 |
| 219-944 | ADD TO AND ALTER BASE CIVIL ENGINEER MAINTENANCE COMPLEX | 14,700 | SF | 900 |
| 880-232 | FIRE SUPPRESSION SYSTEM | | LS | 2,900 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FORBES FIELD ANG, KANSAS

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 437 | 41 | 295 | 101 | 959 | 122 | 837 |
| ACTUAL | 393 | 39 | 257 | 97 | 958 | 116 | 842 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 117 AREFS | 74 | 69 |
| 190 AREFG | 69 | 65 |
| 190 CLM SQ | 359 | 326 |
| 190 MSS SQ | 46 | 42 |
| 190 RMS SQ | 120 | 109 |
| 190 CEG SQ | 94 | 98 |
| 109 SEP FT | 75 | 72 |
| 190 MSS FT | 40 | 35 |
| 190 SVS FT | 27 | 18 |
| 109 TCI CI | 55 | 48 |
| 8109 STU FT | 0 | 76 |
| TOTALS | 959 | 958 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| KC-135E Aircraft | 10 | 10 |
| Support Equipment | 95 | 95 |
| Vehicle Equivalents | 292 | 348 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FORBES FIELD ANG KANSAS | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | GU0E909597 | $1,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,050 |
| SUPPORTING FACILITIES | | | | 153 |
| UTILITIES | LS | | | ( 13) |
| PAVEMENTS | LS | | | ( 50) |
| SITE RESTORATION | LS | | | ( 90) |
| SUBTOTAL | | | | 1,203 |
| CONTINGENCY (10%) | | | | 120 |
| TOTAL CONTRACT COST | | | | 1,323 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 66 |
| TOTAL REQUEST | | | | 1,389 |
| TOTAL REQUEST (ROUNDED) | | | | 1,400 |

10. Description of Proposed Construction: Replace 13 tanks and remove only 4 others. Install 1 other oil/water separators including modifications to drain systems. Excavate and remove the tanks. Dispose of the tanks and tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. In addition, the State of Kansas regulates heating oil tanks. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

FORBES FIELD ANG KANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | GUQE909597 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 JUN 19 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 SEP 21 |
| (d) | Date Design Complete | 93 APR 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 70 |
| (b) | All Other Design Costs | 33 |
| (c) | Total | 103 |
| (d) | Contract | 103 |
| (e) | In-house | |
| (4) Construction Start | | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>MCCONNELL AIR FORCE BASE, KANSAS | | 4. AREA CONSTR COST INDEX<br>0.91 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Active Air Force Inatallation, 3 Army National Guard Armories, 1 Army Reserve Center, 1 Navy Reserve and 1 Marine Corps Reserve

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-450 | ALTER MEDICAL TRAINING AND TELECOM | 12,300 SF | 890 | MAR 89 | MAY 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 800 |
| 141-753 | ALTER SQUADRON OPERATIONS FACILITY | 40,000 SF | 600 |
| 211-111 | ADD TO AND ALTER MAINTENANCE HANGARS | 94,000 SF | 5,000 |
| 211-111 | MAINTENANCE HANGAR | 21,000 SF | 12,400 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
MCCONNELL AIR FORCE BASE, KANSAS

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 860 | 94 | 743 | 23 | 1,611 | 160 | 1,451 |
| ACTUAL | 845 | 88 | 735 | 22 | 1,527 | 141 | 1,386 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 127 TFS SQ | 20 | 20 |
| 134 TCS SQ | 89 | 82 |
| 161 TFT SQ | 20 | 17 |
| 177 TFT SQ | 20 | 21 |
| 184 TFG HQ | 95 | 88 |
| 184 MSS SQ | 78 | 70 |
| 184 CEG SQ | 102 | 89 |
| 184 TCI CI | 73 | 61 |
| 184 CLM SQ | 833 | 821 |
| 184 RMS SQ | 146 | 137 |
| 184 SVS FT | 43 | 34 |
| 184 MSS FT | 44 | 41 |
| 184 FG DET | 48 | 46 |
| TOTALS | 1,611 | 1,527 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 C/D | 54 | 64 |
| Support Equipment | 631 | 478 |
| Vehicle Equivalents | 400 | 434 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCCONNELL AIR FORCE BASE KANSAS | ALTER MEDICAL TRAINING AND TELECOM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-450 | PROE000047 | $890 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER MEDICAL TRAINING AND TELECOM | SF | 12,300 | | 491 |
| ALTER MEDICAL TRAINING | SF | 10,300 | 38 | ( 391) |
| ALTER TELECOMM | SF | 2,000 | 50 | ( 100) |
| SUPPORTING FACILITIES | | | | 315 |
| UTILITIES | LS | | | ( 200) |
| ASBESTOS REMOVAL | LS | | | ( 60) |
| PREWIRED WORK STATIONS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| SUBTOTAL | | | | 806 |
| CONTINGENCY (5%) | | | | 40 |
| TOTAL CONTRACT COST | | | | 846 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 42 |
| TOTAL REQUEST | | | | 888 |
| TOTAL REQUEST (ROUNDED) | | | | 890 |

10. Description of Proposed Construction: Reconfigure floor space by removing and adding walls, adding plumbing where necessary, completely replace HVAC and electrical systems. Remove asbestos. Provide systems furniture.
Air Conditioning: 45 Tons.

11. REQUIREMENT: 12,300 SF ADEQUATE: 0 SUBSTANDARD: 12,300 SF
PROJECT: Alter Medical Training and Telecom (Current Misaion).
REQUIREMENT: Adequate space for phyaical examinations, immunizations, environmental health, pharmacy, medical training, medical records, and administrative and training support areas for medical personnel is required. Adequate space is required for the central telecommunication switch room.
CURRENT SITUATION: This project will upgrade and renovate the space vacated by the operations and training functions that have moved into the new building constructed with FY90 MILCON. The medical training unit currently occupies only 5000 SF. The aevere shortage of space makes training of medical personnel and processing of group personnel for shots and physicals nearly impossible. The utility systems require extensive upgrade. The building electrical aystem is undersized, unaafe and needs replacement. The telecom space is improperly aized and the equipment is crowded in a small area and connot be maintained. Personnel cannot train. The air conditioning aystem needs total replacement.
IMPACT IF NOT PROVIDED: Inefficient training. Unsafe and unsanitary working conditions. Vacated space remaina unuseable.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCCONNELL AIR FORCE BASE KANSAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER MEDICAL TRAINING AND TELECOM | PROE000047 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 MAR 10 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 OCT 12 |
| (d) | Date Design Complete | 93 MAY 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 40 |
| (b) | All Other Design Costs | 28 |
| (c) | Total | 68 |
| (d) | Contract | 68 |
| (e) | In-house | |
| (4) | Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>HAMMOND ANG COMMUNICATION STATION LOUISIANA | | 4. AREA CONSTR COST INDEX<br>0.89 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly asaemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Army Reserve MP Company and 1 ROTC Detachment

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 350 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 1 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HAMMOND ANG COMMUNICATION STATION LOUISIANA

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 29 | 1 | 28 | 0 | 189 | 9 | 180 |
| ACTUAL | 29 | 1 | 28 | 0 | 196 | 9 | 187 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 236 CCS SQ | 189 | 196 |
| TOTALS | 189 | 196 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Tactical Switchboard | 2 | 2 |
| Pacer Bounce Equipment | 2 | 6 |
| Communications Equipment/Centers | 6 | 9 |
| TACAN/GCA | 2 | 2 |
| System Control | 2 | 2 |
| Mobile Control Tower | 1 | 1 |
| Support Equipment | 44 | 44 |
| Vehicle Equivalents | 221 | 221 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NEW ORLEANS NAS ANG, LOUISIANA

4. AREA CONSTR COST INDEX 0.94

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
5 Army National Guard Armories, 2 Army Reserve Facilities, 1 Naval Reserve Base, 1 Naval Reserve Headquarters, 1 Naval/Marine Reserve Facility and 1 Army/Air National Guard State Headquarters

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 350 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 1 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 211-179 | FUEL CELL AND CORROSION CONTROL HANGAR | 17,000 | SF | 3,200 |
| 442-758 | ADD TO AND ALTER BASE SUPPLY WAREHOUSE | 32,300 | SF | 790 |
| 880-232 | FIRE SUPPRESSION SYSTEM | | LS | 1,000 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NEW ORLEANS NAS ANG, LOUISIANA

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 387 | 28 | 359 | 0 | 1,229 | 117 | 1,112 |
| ACTUAL | 376 | 24 | 352 | 0 | 1,211 | 114 | 1,097 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 122 WEA FT | 16 | 15 |
| 122 TFS SQ | 58 | 62 |
| 159 MSS SQ | 45 | 46 |
| 159 CLM SQ | 577 | 589 |
| 159 TFG GP | 73 | 76 |
| 159 TCI CI | 50 | 48 |
| 159 CEG SQ | 100 | 93 |
| 159 SVS FT | 27 | 28 |
| 159 WSS FT | 81 | 86 |
| 159 RMS SQ | 120 | 119 |
| 159 MSS FT | 40 | 42 |
| 8815 STU FT | 42 | 7 |
| TOTALS | 1,229 | 1,211 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-15 A/B Aircraft | 24 | 28 |
| C-130H Aircraft | 1 | 1 |
| Aerospace Ground Equipment (AGE) | 154 | 142 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 186 | 205 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>ANDREWS AIR FORCE BASE, MARYLAND | | 4. AREA CONSTR COST INDEX<br>1.03 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Reserve, 1 Army Reserve, 1 Active Air Force Base, 1 Navy Reserve and 1 army National Guard

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 890 | NOV 91 | JUL 93 |
| 217-713 | ADD TO AND ALTER AVIONICS AND ECM POD FACILITY | 10,400 SF | 1,100 | FEB 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 8 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 214-425 | COMPOSITE VEHICLE MAINTENANCE AND AGE FACILITY | 11,700 SF | 1,650 |
| 422-256 | MUNITIONS TRAILER MAINTENANCE FACILITY | 2,500 SF | 500 |
| 610-281 | ANGRC COMPOSITE SUPPORT CENTER | 196,400 SF | 20,000 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
ANDREWS AIR FORCE BASE, MARYLAND

11. PERSONNEL STRENGTH AS OF 31 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 584 | 37 | 150 | 397 | 1,602 | 186 | 1,416 |
| ACTUAL | 563 | 37 | 145 | 381 | 1,494 | 183 | 1,311 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 113 TFW WG | 56 | 57 |
| 113 RMS SQ | 120 | 123 |
| 113 TCI CI | 52 | 55 |
| 113 MSS SQ | 47 | 45 |
| 113 CEG SQ | 100 | 94 |
| 113 SEP FT | 57 | 58 |
| 113 CLM SQ | 547 | 426 |
| 113 MSS FT | 30 | 31 |
| 121 TFW SQ | 57 | 52 |
| 121 W FT | 21 | 23 |
| 201 ALS | 214 | 209 |
| HQ DC ANG | 44 | 42 |
| 231 CC SQ | 223 | 213 |
| 113 SVS FT | 34 | 35 |
| 8113 STU FT | 0 | 31 |
| TOTALS | 1,602 | 1,494 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 26 |
| C-21A Aircraft | 4 | 4 |
| C-22B Aircraft | 5 | 5 |
| Support Equipment | 283 | 252 |
| Vehicle Equivalents | 419 | 418 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE MARYLAND | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | AJXF909633 | $890 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 640 |
| SUPPORTING FACILITIES | | | | 128 |
| UTILITIES | LS | | | ( 16) |
| PAVEMENTS | LS | | | ( 16) |
| SITE RESTORATION | LS | | | ( 96) |
| SUBTOTAL | | | | 768 |
| CONTINGENCY (10%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 845 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 42 |
| TOTAL REQUEST | | | | 887 |
| TOTAL REQUEST (ROUNDED) | | | | 890 |

10. Description of Proposed Construction: Replace 16 tanks. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. In addition, the state of Maryland regulates heating oil tanks. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | AJXF909633 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 45 |
| (b) All Other Design Costs | 22 |
| (c) Total | 67 |
| (d) Contract | 67 |
| (e) In-house | |
| (4) Construction Start | 94 JUL |

b. Equipment associated with thia project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE MARYLAND | ADD TO AND ALTER AVIONICS AND ECM POD FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 217-713 | AJXF889671 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER AVIONICS AND ECM POD FACILITY | SF | 10,400 | | 861 |
| ADD TO ECM POD MAINTENANCE AND STORAGE | SF | 4,000 | 105 | ( 420) |
| ADD TO AVIONICS | SF | 2,200 | 105 | ( 231) |
| ALTER AVIONICS | SF | 4,200 | 50 | ( 210) |
| SUPPORTING FACILITIES | | | | 140 |
| UTILITIES | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 1,001 |
| CONTINGENCY (5%) | | | | 50 |
| TOTAL CONTRACT COST | | | | 1,051 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,104 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Addition: Reinforced concrete foundation and floor slab, masonry/metal walls and roof system. Addition shall match existing building. Alteration: Move partitions and extend utilities. Provide all utilities, pavements and site improvements. Air Conditioning: 20 Tons.

11. REQUIREMENT: 16,700 SF ADEQUATE: 6,300 SF SUBSTANDARD: 4,200 SF
PROJECT: Add to and Alter Avionics and ECM Pod Facility (New Mission).
REQUIREMENT: This project supports the conversion to the F-16 aircraft and the new Electronic Counter Measure (ECM) mission. Adequately sized and properly configured space is required for the avionics and the ECM pod functional areas in order to provide proper maintenance. Space for the newest maintenance and test equipment for the avionics maintenance and ECM pods is necessary. Storage for the new pods and space to maneuver the pod cranes is required.
CURRENT SITUATION: The existing avionics and ECM facility is undersized. The present space is inadequate to install the new avionics and ECM pod test equipment. The new pods that have been received require more stringent environmental controls than currently exist. Storage space for new pods is insufficient to properly store and maneuver the pods from the storage racks to the test stands or to the exterior for installation on the aircraft.
IMPACT IF NOT PROVIDED: Overcrowded conditions continue to severely reduce maintenance efficiency and training for the avionics and ECM pod functional areas. Operational readiness and unit training capability are adversely affected. The unit cannot reach full operational capability.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER AVIONICS AND ECM POD FACILITY | AJXF889671 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 FEB 04 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 OCT 15 |
| (d) Date Design Complete | 93 JUN 15 |
| (2) Basia: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 46 |
| (b) All Other Design Costs | 36 |
| (c) Total | 82 |
| (d) Contract | 82 |
| (e) In-house | |
| (4) Construction Start | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>MARTIN STATE AIRPORT ANG, MARYLAND | | 4. AREA CONSTR COST INDEX<br>0.77 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
12 Army National Guard Armories, 5 Army Reserve Facilities, 1 US Naval Reserve Center and 1 USMC Reserve Center.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,000 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 8 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | REPLACE DERA USTS | | LS | 1,100 |
| 141-753 | ADD TO AND ALTER SQUADRON OPERATIONS FACILITY | 11,400 | SF | 1,000 |
| 171-450 | MEDICAL TRAINING FACILITY | 12,800 | SF | 2,000 |
| 217-712 | ADD TO AND ALTER A-10 AVIONICS SHOP | 4,000 | SF | 450 |
| 722-351 | DINING HALL | 12,200 | SF | 1,850 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
MARTIN STATE AIRPORT ANG, MARYLAND

11. PERSONNEL STRENGTH AS OF 30 APR 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 425 | 3 | 104 | 318 | 1,842 | 236 | 1,606 |
| ACTUAL | 418 | 3 | 101 | 314 | 1,770 | 236 | 1,534 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 104 TFG SQ | 51 | 45 |
| 135 CEG SQ | 145 | 118 |
| 135 CLM SQ | 180 | 176 |
| 135 MAP FT | 69 | 67 |
| 135 MSQ SQ | 74 | 67 |
| 135 MSQ FT | 26 | 25 |
| 135 RMS SQ | 121 | 114 |
| 135 TAL GP | 60 | 52 |
| 135 TAL SQ | 81 | 86 |
| 135 TCI CI | 30 | 30 |
| 135 SEP FT | 58 | 59 |
| 175 CEG SQ | 100 | 93 |
| 175 CLM SQ | 403 | 366 |
| 175 CMN FT | 21 | 28 |
| 175 MSQ FT | 37 | 36 |
| 175 MSQ SQ | 74 | 68 |
| 175 RMS SQ | 121 | 112 |
| 175 TCI CI | 37 | 34 |
| 175 TFG GP | 58 | 58 |
| 175 SEP FT | 57 | 56 |
| 235 CEG FT | 39 | 34 |
| 8135 STU FT | 0 | 22 |
| 8175 STU FT | 0 | 24 |
| TOTALS | 1,842 | 1,770 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130 Aircraft | 8 | 8 |
| A-10 Aircraft | 24 | 20 |
| Support Equipment | 104 | 97 |
| Vehicle Equivalents | 305 | 261 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MARTIN STATE AIRPORT ANG MARYLAND | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | PJMS909549 | $1,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 720 |
| SUPPORTING FACILITIES | | | | 144 |
| UTILITIES | LS | | | ( 18) |
| PAVEMENTS | LS | | | ( 18) |
| SITE RESTORATION | LS | | | ( 108) |
| SUBTOTAL | | | | 864 |
| CONTINGENCY (10%) | | | | 86 |
| TOTAL CONTRACT COST | | | | 950 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 48 |
| TOTAL REQUEST | | | | 998 |
| TOTAL REQUEST (ROUNDED) | | | | 1,000 |

10. Description of Proposed Construction: Replace 18 tanks. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. In addition, the state of Maryland regulates heating oil tanks. All regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MARTIN STATE AIRPORT ANG MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | PJMS909549 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 AUG 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 53 |
| (b) | All Other Design Costs | 27 |
| (c) | Total | 80 |
| (d) | Contract | 80 |
| (e) | In-house | |
| (4) | Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ALPENA COUNTY REGIONAL AIRPORT, MICHIGAN

4. AREA CONSTR COST INDEX 1.05

5. FREQUENCY AND TYPE OF UTILIZATION
Daily use by full time personnel, used by up to 40 visiting military units per year for periods ranging from 2 days to 4 weeks.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 842-245 | UPGRADE WATER DISTRIBUTION SYSTEM | | LS | 1,400 | SEP 90 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 19 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 116-922 | AIRCRAFT ARRESTING SYSTEM | | LS | 2,000 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 375 |
| 179-511 | FIREMEN TRAINING FACILITY | | LS | 680 |
| 219-944 | BASE CIVIL ENGINEERING MAINTENANCE COMPLEX | 14,400 | SF | 1,500 |
| 442-758 | BASE SUPPLY WAREHOUSE | 25,200 | SF | 3,150 |
| 832-266 | SANITARY SEWER LINE | 40,000 | LF | 2,300 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ALPENA COUNTY REGIONAL AIRPORT, MICHIGAN

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 110 | 9 | 69 | 32 | 78 | 9 | 69 |
| ACTUAL | 100 | 8 | 62 | 30 | 70 | 8 | 62 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| CRTC CRTC | | 78 | 70 |
| | TOTALS | 78 | 70 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 119 | 119 |
| Vehicle Equivalents | 464 | 464 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALPENA COUNTY REGIONAL AIRPORT MICHIGAN | UPGRADE WATER DISTRIBUTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 842-245 | TDVG001308 | $1,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE WATER DISTRIBUTION SYSTEM | LS | | | 1,212 |
| SUBTOTAL | | | | 1,212 |
| CONTINGENCY (10%) | | | | 121 |
| TOTAL CONTRACT COST | | | | 1,333 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 67 |
| TOTAL REQUEST | | | | 1,400 |
| TOTAL REQUEST (ROUNDED) | | | | 1,400 |

10. Description of Proposed Construction: Cast iron water lines and appurtenances compatable with the existing system. All excavation and restoration associated with the construction of water lines.

11. REQUIREMENT: As required.

PROJECT: Upgrade Water Distribution System (Current Mission).

REQUIREMENT: This is a category I environmental compliance project. Base requires an adequate water supply and distribution system to supply safe, potable water for consumption by base personnel, industrial facilities and fire protection. The ANG water supply connection to the Alpena Township water system will provide an adequate safe and potable water.

CURRENT SITUATION: This project will connect the base water system to the off base municipal water supply. The base potable water is provided by three wells. One well has a very low yield; a second well provided water at a reasonable yield, but in the early 1980's it was found to be contaminated with Trichloroethane (TCE) and was condemned for use by the State Health Department. The third well has adequate yield capacity, however it also has very high concentrations of Sodium and Calcium Chlorides, which are borderline health hazards and are tremendously corrosive to metals. Other sources on the base have been sought but the wells and aquifer have shown contamination by organic chemicals.

IMPACT IF NOT PROVIDED: Premature deterioration of the water lines. Unsafe drinking water.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ALPENA COUNTY REGIONAL AIRPORT MICHIGAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE WATER DISTRIBUTION SYSTEM | TDVG001308 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 90 SEP 15 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 30 |
| (d) | Date Design Complete | 93 JUL 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 63 |
| (b) | All Other Design Costs | 24 |
| (c) | Total | 87 |
| (d) | Contract | 87 |
| (e) | In-house | |
| (4) Construction Start | | 94 JUL |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>SELFRIDGE ANG BASE, MICHIGAN | | 4. AREA CONSTR COST INDEX<br>1.07 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
5 Army Reserve Centers, 2 Army National Guard Armories and 1 Naval Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 710 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 19 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | REPLACE DERA USTS | | LS | 1,690 |
| 171-450 | MEDICAL TRAINING FACILITY (ANG/AFRES) | 18,300 | SF | 1,350 |
| 211-111 | ADD TO AND ALTER AIRCRAFT MAINTENANCE HANGAR/SHOPS | 65,900 | SF | 2,800 |
| 211-179 | FUEL SYSTEMS MAINTENANCE DOCK FOR AFRES | 25,100 | SF | 6,100 |
| 218-712 | AGE EQUIPMENT MAINTENANCE AND STORAGE | 4,800 | SF | 500 |
| 219-943 | BASE PAVEMENTS & GROUND FCLTY | 3,400 | SF | 640 |
| 219-944 | BASE CIVIL ENGINEERING MATNTENANCE SHOP | 15,800 | SF | 2,350 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SELFRIDGE ANG BASE, MICHIGAN

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 1,076 | 46 | 523 | 507 | 2,086 | 225 | 1,861 |
| ACTUAL | 1,042 | 43 | 505 | 494 | 1,917 | 206 | 1,711 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 127 | SVCS | 27 | 25 |
| 107 | TFS | 60 | 52 |
| 127 | CAMS | 547 | 455 |
| 127 | MSS | 46 | 47 |
| 127 | TAC CI | 73 | 65 |
| 127 | FW | 71 | 71 |
| 127 | COM FT | 21 | 22 |
| 127 | SPF | 57 | 53 |
| 127 | MSS FT | 33 | 41 |
| 107 | WX FLT | 19 | 16 |
| 191 | SVCS | 34 | 30 |
| 171 | FIS | 40 | 47 |
| 191 | MSS | 45 | 44 |
| 191 | CAMS | 396 | 359 |
| 191 | FIG | 64 | 58 |
| 191 | CL | 55 | 53 |
| 191 | CES | 136 | 132 |
| 191 | SPF | 85 | 80 |
| 191 | RMS | 120 | 116 |
| 191 | MSF | 37 | 37 |
| 127 | RMS | 120 | 114 |
| | TOTALS | 2,086 | 1,917 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16A/B Aircraft | 42 | 54 |
| C-26B Aircraft | 1 | 1 |
| Support Equipment | 298 | 272 |
| Vehicle Equivalents | 764 | 880 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SELFRIDGE ANG BASE MICHIGAN | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | VGLZ909539 | $710 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 500 |
| SUPPORTING FACILITIES | | | | 118 |
| UTILITIES | LS | | | ( 8) |
| PAVEMENTS | LS | | | ( 8) |
| SITE RESTORATION | LS | | | ( 102) |
| SUBTOTAL | | | | 618 |
| CONTINGENCY (10%) | | | | 62 |
| TOTAL CONTRACT COST | | | | 680 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 34 |
| TOTAL REQUEST | | | | 714 |
| TOTAL REQUEST (ROUNDED) | | | | 710 |

10. Description of Proposed Construction: Replace 8 fuel storage tanks and remove only 9 others. Excavate and remove the tanks; dispose of the tanks and tank residue and any contaminated soil and restore site.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. The tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed , the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restrainta and/or Notices of Violations and fines. Any leakage could have the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SELFRIDGE ANG BASE MICHIGAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | VGLZ909539 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 30 |
| (d) | Date Design Complete | 93 JUL 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 36 |
| (b) | All Other Design Costs | 9 |
| (c) | Total | 45 |
| (d) | Contract | 45 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
W K KELLOGG REGIONAL AIRPORT, MICHIGAN

4. AREA CONSTR COST INDEX
1.05

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Army Reserve Center, 1 Army Training Center, 1 Naval/Marine Training Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 211-159 | ADD TO AND ALTER FUEL CELL AND CORROSION CONTROL FACILITY | 17,000 SF | 1,100 | JAN 91 | APR 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 19 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE DERA USTS | LS | 300 |
| 171-450 | COMPOSITE MEDICAL TRAINING AND DINING HALL | 20,100 SF | 3,200 |
| 730-142 | FIRE STATION AND AIRCRAFT GROUND EQUIPMENT SHOP | 14,700 SF | 1,600 |
| 730-835 | SECURITY POLICE OPERATIONS | 4,600 SF | 740 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
W K KELLOGG REGIONAL AIRPORT, MICHIGAN

11. PERSONNEL STRENGTH AS OF 14 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 272 | 25 | 237 | 10 | 1,003 | 122 | 881 |
| ACTUAL | 265 | 24 | 231 | 10 | 996 | 135 | 861 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 110 CEG SQ | 124 | 129 |
| 110 SVS FT | 25 | 25 |
| 110 MSS SQ | 46 | 47 |
| 110 MSS FT | 41 | 43 |
| 110 SEP FT | 57 | 58 |
| 110 CLM SQ | 421 | 382 |
| 110 TCI CI | 33 | 38 |
| 110 RMS SQ | 120 | 122 |
| 110 TAS GP | 55 | 57 |
| HQ AGO | 31 | 32 |
| 172 TAS SQ | 50 | 63 |
| TOTALS | 1,003 | 996 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| A-10 Aircraft | 18 | 22 |
| Support Equipment | 90 | 79 |
| Vehicle Equivalents | 253 | 253 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| W K KELLOGG AIRPORT MICHIGAN | ADD TO AND ALTER FUEL CELL AND CORROSION CONTROL FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-159 | MBMV899609 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER FUEL CELL/ CORROSION CONTROL | SF | 17,000 | | 880 |
| ADD TO FACILITY | SF | 6,000 | 110 | ( 660) |
| ALTER FACILITY | SF | 11,000 | 20 | ( 220) |
| SUPPORTING FACILITIES | | | | 130 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| SUBTOTAL | | | | 1,010 |
| CONTINGENCY (5%) | | | | 51 |
| TOTAL CONTRACT COST | | | | 1,061 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,114 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Concrete floor slabs and foundation, insulated wall and roof systems. Extend fire suppression and detection systems. Upgrade electrical and ventilation systems. Upgrade shops and offices. All utilities and support.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 11,000 SF

PROJECT: Add to and Alter Fuel Cell and Corrosion Control Facility (New Mission).

REQUIREMENT: This project supports the conversion from OA-37 to OA-10 aircraft in October 1991 and is also a level II environmental compliance project. A facility with proper environmental controls for both fuel cell maintenance and corrosion control which must be used for the washing and solvent cleaning as well as painting of aircraft parts both on and off the aircraft is required.

CURRENT SITUATION: The existing facility could support the OA-37 aircraft but is undersized for the much larger OA-10 aircraft. It has only one bay for both fuel cell and corrosion control. Two bays are required. In addition, the ventilation and environmental control systems are undersized and improperly positioned for the larger aircraft. The facility has numerous environmental deficiencies. This project will expand the building and upgrade the environmental controls.

IMPACT IF NOT PROVIDED: Unable to perform fuel cell maintenance on new aircraft. Unable to perform corrosion control during winter months. Unable to reach full operational capability. Loss of training opportunities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

W K KELLOGG AIRPORT MICHIGAN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FUEL CELL AND CORROSION CONTROL FACILITY | MBMV899609 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 JAN 14 |
| (b) | Percent Complete as of Jan 93 | 40% |
| (c) | Date 35% Designed | 92 OCT 15 |
| (d) | Date Design Complete | 93 APR 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 49 |
| (b) | All Other Design Costs | 28 |
| (c) | Total | 77 |
| (d) | Contract | 77 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>DULUTH INTERNATIONAL AIRPORT ANG, MINNESOTA | | 4. AREA CONSTR COST INDEX<br>1.12 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly asaemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 1 Naval Reserve Facility and 1 Army Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 1,000 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 3 FEB 93 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | LS | 4,350 |
| 880-232 | FIRE SUPPRESSION SYSTEM(S) | LS | 1,850 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
DULUTH INTERNATIONAL AIRPORT ANG, MINNESOTA

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 381 | 4 | 87 | 290 | 1,039 | 105 | 934 |
| ACTUAL | 381 | 4 | 87 | 290 | 1,037 | 115 | 922 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 148 FIN GP | 65 | 60 |
| 148 MSS SQ | 45 | 46 |
| 148 CLM SQ | 408 | 374 |
| 148 TCI CI | 33 | 40 |
| 148 CEG SQ | 136 | 129 |
| 148 SEP FT | 85 | 78 |
| 148 CMN FT | 21 | 17 |
| 148 RMS SQ | 121 | 119 |
| 148 MSS FT | 41 | 41 |
| 148 SVS FT | 25 | 20 |
| 179 FIN SQ | 41 | 46 |
| 8148 STU FT | 0 | 50 |
| DET 1 | 18 | 17 |
| TOTALS | 1,039 | 1,037 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 22 |
| Support Equipment | 134 | 122 |
| Vehicle Equivalents | 366 | 455 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| DULUTH INTERNATIONAL AIRPORT ANG MINNESOTA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | FMKM909604 | $1,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 720 |
| SUPPORTING FACILITIES | | | | 156 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 15) |
| SITE RESTORATION | LS | | | ( 126) |
| SUBTOTAL | | | | 876 |
| CONTINGENCY (10%) | | | | 88 |
| TOTAL CONTRACT COST | | | | 964 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 48 |
| TOTAL REQUEST | | | | 1,012 |
| TOTAL REQUEST (ROUNDED) | | | | 1,000 |

10. Description of Proposed Construction: Replace 15 tanks and remove only 6 others. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. In addition, the State of Minnesota also regulates heating oil tanks. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

DULUTH INTERNATIONAL AIRPORT ANG MINNESOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | FMKM909604 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 50 |
| (b) All Other Design Costs | 20 |
| (c) Total | 70 |
| (d) Contract | 70 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>GULFPORT-BILOXI REGIONAL AIRPORT, MISSISSIPPI | | 4. AREA CONSTR COST INDEX<br>0.85 |

5. FREQUENCY AND TYPE OF UTILIZATION
One week per month for three tenant units, annual training for numerous visiting units averaging over 300 days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
5 Army National Guard Armories, 1 Air Force Base and 1 Naval Construction Battalion Center.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 335 | NOV 91 | SEP 93 |
| 812-223 | UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | | LS | 850 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 30 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 179-511 | FIREMEN TRAINING FACILITY | | LS | 680 |
| 725-517 | ADD TO AND ALTER TROOP TRAINING QUARTERS | 76,400 | SF | 2,100 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
GULFPORT-BILOXI REGIONAL AIRPORT, MISSISSIPPI

11. PERSONNEL STRENGTH AS OF 31 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 177 | 12 | 100 | 65 | 515 | 48 | 467 |
| ACTUAL | 170 | 12 | 98 | 60 | 475 | 40 | 435 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 172 CLI CI | 8 | 9 |
| 172 MSQ SQ | 65 | 63 |
| 173 CEG SQ | 151 | 152 |
| 255 TCT SQ | 291 | 251 |
| TOTALS | 515 | 475 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Vehicle Equivalents: Trng Site | 358 | 384 |
| Vehicle Equivalents: 255th TCS | 366 | 369 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 0 | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GULFPORT-BILOXI REGIONAL AIRPORT<br>MISSISSIPPI | UPGRADE ELECTRICAL<br>DISTRIBUTION SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 812-223 | JTVE929520 | $850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | LS | | | 660 |
| SUPPORTING FACILITIES | | | | 75 |
| RESTORE CUT PAVEMENTS | LS | | | ( 50) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 735 |
| CONTINGENCY (10%) | | | | 74 |
| TOTAL CONTRACT COST | | | | 809 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 40 |
| TOTAL REQUEST | | | | 849 |
| TOTAL REQUEST (ROUNDED) | | | | 850 |

10. Description of Proposed Construction: Upgrade electrical substation, switchgear, and underground distribution system from 12470/7200 volt to 23,000 volt.

11. REQUIREMENT: As required.

PROJECT: Upgrade Electrical Distribution System (Current Mission).

REQUIREMENT: The base requires an adequate and reliable source of electrical primary power from the local utility and distribution of the power basewide in accordance with current utility standards. The utility periodically improves service as load and demand increase. The base system, overcurrent protection, and basewide distribution system must be upgraded accordingly to maintain compatiblity with the level of service and related equipment for this improvement and growth.

CURRENT SITUATION: The base is served by a Mississippi Power Company substation at 12470/7200 volts, three phase. The substation for this ANG location is the only substation in their system that still operates at this voltage. All other power company substations are sized at 23,000 volts, three phase. This existing electrical substation and transmission system are at maximum capacity. It is forecasted to peak beyond its actual operating capacity by FY 96. New facilities are planned to support the Combat Readiness Training Center mission. These new facilities cannot be supported by the current electrical distribution system. The existing antiquated system does not have selective tripping. A fault on the system shuts off power basewide by opening the main service overcurrent protection rather than opening a feeder breaker to shut off power to a limited area.

IMPACT IF NOT PROVIDED: Any power outage could result in the complete shutdown of the base for an extended period of time, due to the

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |
| 3. INSTALLATION AND LOCATION | | |
| GULFPORT-BILOXI REGIONAL AIRPORT MISSISSIPPI | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | | JTVE929520 |

non-standard electric feeder system on the base. Future planned facilities will have to be delayed.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

GULFPORT-BILOXI REGIONAL AIRPORT MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE ELECTRICAL DISTRIBUTION SYSTEM | JTVE929520 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 12 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 40 |
| (b) All Other Design Costs | 10 |
| (c) Total | 50 |
| (d) Contract | 50 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ALLEN C THOMPSON FIELD, MISSISSIPPI

4. AREA CONSTR COST INDEX
0.82

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Units, 1 Army Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 730 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 30 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 113-321 | ADD TO AIRCRAFT PARKING APRON | 44,000 SY | 6,500 |
| 730-142 | ADD TO AND ALTER FIRE STATION | 12,700 SF | 840 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
ALLEN C THOMPSON FIELD, MISSISSIPPI

11. PERSONNEL STRENGTH AS OF 18 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 345 | 23 | 253 | 69 | 1,180 | 156 | 1,024 |
| ACTUAL | 341 | 22 | 252 | 67 | 1,181 | 154 | 1,027 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 183 ALT SQ | 153 | 160 |
| 183 AME SQ | 88 | 90 |
| 172 ALT GP | 57 | 53 |
| 172 AP FT | 65 | 66 |
| 172 CAM SQ | 350 | 347 |
| 172 TAC CL | 34 | 39 |
| 172 CIV SQ | 136 | 125 |
| 172 MSS SQ | 46 | 45 |
| 172 MSS FT | 40 | 38 |
| 172 SEC FT | 57 | 57 |
| 172 RMS SQ | 120 | 126 |
| 172 SER FT | 34 | 35 |
| TOTALS | 1,180 | 1,181 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-141B Aircraft | 8 | 8 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 256 | 285 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALLEN C THOMPSON FIELD MISSISSIPPI | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | LRX0909581 | $730 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 520 |
| SUPPORTING FACILITIES | | | | 112 |
| UTILITIES | LS | | | ( 11) |
| PAVEMENTS | LS | | | ( 11) |
| SITE RESTORATION | LS | | | ( 90) |
| SUBTOTAL | | | | 632 |
| CONTINGENCY (10%) | | | | 63 |
| TOTAL CONTRACT COST | | | | 695 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 35 |
| TOTAL REQUEST | | | | 730 |
| TOTAL REQUEST (ROUNDED) | | | | 730 |

10. Description of Proposed Construction: Replace 11 tanks and remove only 4 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ALLEN C THOMPSON FIELD MISSISSIPPI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LRX0909581 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 01 |
| (d) | Date Design Complete | 93 JUL 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 37 |
| (b) | All Other Design Costs | 19 |
| (c) | Total | 56 |
| (d) | Contract | 56 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION<br>JEFFERSON BARRACKS ANG STATION, MISSOURI | | 4. AREA CONSTR COST INDEX 0.94 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
4 Air National Guard, 7 Army National Guard, 1 Navy Reserve, 1 Coast Guard Reserve, 1 NGB Central Personnel Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-447 | ALTER COMMUNICATIONS ELECTRONIC TRAINING FACILITIES | 50,800 SF | 2,800 | JUN 88 | FEB 93 |
| 722-351 | UPGRADE DINING HALL | 8,600 SF | 720 | DEC 90 | DEC 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 14 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
JEFFERSON BARRACKS ANG STATION, MISSOURI

11. PERSONNEL STRENGTH AS OF 7 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 74 | 11 | 49 | 14 | 530 | 70 | 460 |
| ACTUAL | 72 | 11 | 49 | 12 | 525 | 65 | 460 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 157 ACG GP | 145 | 149 |
| 121 ACG GP | 90 | 85 |
| 218 EIS | 195 | 195 |
| 131 CES | 100 | 96 |
| TOTALS | 530 | 525 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Misc Equip | 49 | 49 |
| Support Equipment | 517 | 517 |
| Vehicle Equivalents | 342 | 342 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| JEFFERSON BARRACKS ANG STATION MISSOURI | ALTER COMMUNICATIONS ELECTRONIC TRAINING FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-447 | LTUY000498 | $2,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER COMM AND ELEC TRAINING FACILITIES | SF | 50,800 | | 1,829 |
| BUILDING 28 | SF | 24,200 | 36 | ( 871) |
| BUILDING 1 | SF | 18,100 | 36 | ( 652) |
| BUILDING 280 | SF | 8,500 | 36 | ( 306) |
| SUPPORTING FACILITIES | | | | 690 |
| FIRE DETECTION/ALARM | LS | | | ( 220) |
| PRE WIRED WORK STATIONS | LS | | | ( 280) |
| ASBESTOS REMOVAL | LS | | | ( 190) |
| SUBTOTAL | | | | 2,519 |
| CONTINGENCY (5%) | | | | 126 |
| TOTAL CONTRACT COST | | | | 2,645 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 132 |
| TOTAL REQUEST | | | | 2,777 |
| TOTAL REQUEST (ROUNDED) | | | | 2,800 |

10. Description of Proposed Construction: Renovation of 3 Registered National Historic Facilities in compliance with Department of Interior Standards for the renovation of historic buildings. Includes upgrade of electrical systems, replacement of original 1880's plumbing, installation of modern HVACs, and installation/modification of fire detection/alarm systems. Relocate walls and utilities.
Air Conditioning: 175 Tons.

11. REQUIREMENT: 50,800 SF ADEQUATE: 0 SUBSTANDARD: 50,800 SF
PROJECT: Alter Communications Electronic Training Facilities (New Mission).
REQUIREMENT: This project supports in part the arrival of the modular comm equipment. Adequate facilities for training and maintenance of electronic equipment are required. Facilities must be brought into compliance with local and national building and safety codes. Electrical and plumbing systems must be repaired/upgraded to meet present needs. Fire alarm and reporting systems must be installed/altered.
CURRENT SITUATION: Facilities were built in 1880's. They have received no substantial upgrade since the US ARMY deactivated Jefferson Barracks in 1946. These buildings are not currently suited to satisfy the requirements of a modern communications electronics unit and fail to meet many fire, safety and construction codes. These facilities were built for post stockade and troop billeting. No significant renovation has ever been accomplished to enable the facilities to meet the requirements of the unit's mission. Utilities are antiquated. Systems are energy inefficient.
IMPACT IF NOT PROVIDED: Inefficient training. Hazardous working and training conditions. Danger to personnel and equipment. Loss of energy.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JEFFERSON BARRACKS ANG STATION MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER COMMUNICATIONS ELECTRONIC TRAINING FACILITIES | LTUY000498 |

Possible damage to National Historic Facilities.
ADDITIONAL: An exception to the economic analysis requirement has been prepared. The paper presents the rational for only one alternative which is to alter the existing facilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JEFFERSON BARRACKS ANG STATION MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER COMMUNICATIONS ELECTRONIC TRAINING FACILITIES | LTUY000498 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 88 JUN 23 |
| (b) | Percent Complete as of Jan 93 | 95% |
| (c) | Date 35% Designed | 89 AUG 29 |
| (d) | Date Design Complete | 93 FEB 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 126 |
| (b) | All Other Design Costs | 42 |
| (c) | Total | 168 |
| (d) | Contract | 168 |
| (e) | In-house | |
| (4) Construction Start | | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| JEFFERSON BARRACKS ANG STATION MISSOURI | UPGRADE DINING HALL |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 722-351 | LTUY899662 | $720 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE DINING HALL | SF | 8,600 | 60 | 516 |
| SUPPORTING FACILITIES | | | | 135 |
| ASBESTOS REMOVAL | LS | | | ( 90) |
| FIRE DETECTION/SUPPRESSION | LS | | | ( 45) |
| SUBTOTAL | | | | 651 |
| CONTINGENCY (5%) | | | | 33 |
| TOTAL CONTRACT COST | | | | 684 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 34 |
| TOTAL REQUEST | | | | 718 |
| TOTAL REQUEST (ROUNDED) | | | | 720 |

10. Description of Proposed Construction: Renovation of a Registered National Historic Facility in compliance with Department of Interior Standards for the renovation of historic buildings. Repair masonry walls, interior electrical and mechanical systems and remove asbestos materials. Upgrade basement for storage. Install fire protection
Air Conditioning: 30 Tons.

11. REQUIREMENT: 8,600 SF ADEQUATE: 0 SUBSTANDARD: 8,600 SF
PROJECT: Upgrade Dining Hall (Current Mission).
REQUIREMENT: The base requires an adequate sized and properly configured dining hall. Administrative area, food receiving area, storage areas, food preparation, serving areas, and a dining area are required to support the unit during the unit training assemblies and extended summer training periods.
CURRENT SITUATION: The dining hall facility was built in the 1880's and has not been renovated since 1946. The existing space is poorly configured and is not suited for a dining hall. The facility fails to meet current fire, safety and construction codes. The utilities are inadequate and asbestos is present in both the heating system and floor tile.
IMPACT IF NOT PROVIDED: Further facility deteoration and code violations will curtail food service training and operations. Unit training and readiness will be adversely impacted. Alternative feeding methods will be costly and time consuming.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JEFFERSON BARRACKS ANG STATION MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE DINING HALL | LTUY899662 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 DEC 06 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 91 AUG 29 |
| (d) Date Design Complete | 92 DEC 15 |
| (2) Basia: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 25 |
| (b) All Other Design Costs | 10 |
| (c) Total | 35 |
| (d) Contract | 35 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| ROSECRANS MEMORIAL AIRPORT, MISSOURI | 0.93 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Naval Reserve, 2 Army Reserve and 1 Army National Guard

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,250 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 14 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | | LS | 350 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ROSECRANS MEMORIAL AIRPORT, MISSOURI

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 312 | 18 | 53 | 241 | 913 | 140 | 773 |
| ACTUAL | 309 | 18 | 52 | 239 | 891 | 133 | 758 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 139 CEG SQ | 136 | 127 |
| 139 CLM SQ | 176 | 175 |
| 139 MAP FT | 69 | 61 |
| 139 MSS FT | 38 | 37 |
| 139 MSS SQ | 45 | 43 |
| 139 RMS SQ | 121 | 108 |
| 139 TAG GP | 57 | 54 |
| 139 TCI CI | 71 | 61 |
| 139 SEP FT | 57 | 53 |
| 139 SVS FT | 25 | 22 |
| 139 TAG OL | 22 | 20 |
| 180 TAS SQ | 96 | 95 |
| 8139 STU FT | 0 | 35 |
| TOTALS | 913 | 891 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 8 | 8 |
| AATTC C-130 Aircraft | 4 | 4 |
| Support Equipment | 128 | 128 |
| Vehicle Equivalents | 325 | 325 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ROSECRANS MEMORIAL AIRPORT MISSOURI | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | ULYB909560 | $1,250 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 880 |
| SUPPORTING FACILITIES | | | | 196 |
| UTILITIES | LS | | | ( 17) |
| PAVEMENTS | LS | | | ( 17) |
| SITE RESTORATION | LS | | | ( 162) |
| SUBTOTAL | | | | 1,076 |
| CONTINGENCY (10%) | | | | 108 |
| TOTAL CONTRACT COST | | | | 1,184 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 59 |
| TOTAL REQUEST | | | | 1,243 |
| TOTAL REQUEST (ROUNDED) | | | | 1,250 |

10. Description of Proposed Construction: Replace 17 tanks and remove only 10 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and contaminated soil and restore site.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST's regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require each regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST's are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST's at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST's require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage could have the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ROSECRANS MEMORIAL AIRPORT MISSOURI

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | ULYB909560 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 61 |
| (b) All Other Design Costs | 20 |
| (c) Total | 81 |
| (d) Contract | 81 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>GREAT FALLS IAP ANG, MONTANA | | 4. AREA CONSTR COST INDEX<br>1.19 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Base, 1 Army Reserve Installation, 1 Naval Reserve Facility, 2 Army National Guard Facilities

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 400 | NOV 91 | AUG 93 |
| 722-351 | MEDICAL TRAINING AND DINING HALL | 20,100 | SF | 2,900 | AUG 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 10 MAR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,150 |
| 211-179 | ADD TO FUEL CELL MAINTENANCE DOCK | 6,000 | SF | 1,100 |
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 17,900 | SF | 2,500 |
| 219-944 | ADD TO BASE ENGINEER FACILITY | 6,800 | SF | 650 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
GREAT FALLS IAP ANG, MONTANA

11. PERSONNEL STRENGTH AS OF 1 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 356 | 24 | 330 | 2 | 1,080 | 124 | 956 |
| ACTUAL | 340 | 21 | 317 | 2 | 1,042 | 104 | 938 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 120 FIG HQ | 66 | 63 |
| 120 CLM SQ | 409 | 403 |
| 120 MSS SQ | 45 | 42 |
| 120 MSS FT | 41 | 46 |
| 120 TCI CI | 55 | 53 |
| 120 CEG SQ | 148 | 132 |
| 120 SVS FT | 25 | 20 |
| 120 SEP FT | 85 | 85 |
| 120 RMS SQ | 119 | 123 |
| 120 DET 1 | 18 | 17 |
| 186 FIS SQ | 43 | 33 |
| HQ MT ANG | 26 | 25 |
| TOTALS | 1,080 | 1,042 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 20 | 20 |
| C-26 Aircraft | 1 | 1 |
| Support Equipment | 114 | 112 |
| Vehicle Equivalents | 309 | 357 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GREAT FALLS IAP ANG MONTANA | MEDICAL TRAINING AND DINING HALL |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 722-351 | JKSE000258 | $2,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MEDICAL TRAINING AND DINING HALL | SF | 20,100 | | 2,366 |
| MEDICAL TRAINING | SF | 9,800 | 110 | ( 1,078) |
| DINING HALL | SF | 10,300 | 125 | ( 1,288) |
| SUPPORTING FACILITIES | | | | 260 |
| UTILITIES | LS | | | ( 75) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 40) |
| DEMOLITION | LS | | | ( 50) |
| PREWIRED WORK STATIONS | LS | | | ( 75) |
| SUBTOTAL | | | | 2,626 |
| CONTINGENCY (5%) | | | | 131 |
| TOTAL CONTRACT COST | | | | 2,757 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 138 |
| TOTAL REQUEST | | | | 2,895 |
| TOTAL REQUEST (ROUNDED) | | | | 2,900 |

10. Description of Proposed Construction: Concrete foundation and floor slab, with exterior masonry walls and metal stud interior partitions and roof system; including all site work and utilities. Demolish buildings 31, 51 and 52 (7,745 SF) which are in the way of the construction. Air Conditioning: 50 Tons.

11. REQUIREMENT: 20,100 SF ADEQUATE: 0 SUBSTANDARD: 11,320 SF
PROJECT: Medical Training and Dining Hall (Current Mission).
REQUIREMENT: The base requires a properly sized and configured facility to train and feed troops and to train for medical contingencies. Increased manning for medical and aervices training and administrative functions have resulted in increased space requirements.
CURRENT SITUATION: The medical and dining hall are located in the operations and training facility, Building 64, which is grossly inefficient, undersized and creates conflicts in work space during training periods. The space is poorly configured. There are long waiting lines waiting for the meals. There are long lines at medical training. The lines back up in the operations and training space, disrupting the training of other troops. As part of the master plan, the vacated space will be reused by other functions which are also very short in space.
IMPACT IF NOT PROVIDED: Continued use of existing facility for medical and dining hall functions strains the ability of unit to medically process and feed unit personnel as well as hampering the efficiency of the Operations and Training function. Unit morale and readiness is adversely affected. Training opportunities are lost.
ADDITIONAL: A life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project. The results show new construction is the most economically feasible alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

GREAT FALLS IAP ANG MONTANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MEDICAL TRAINING AND DINING HALL | JKSE000258 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 AUG 15 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 APR 30 |
| (d) | Date Design Complete | 93 JUL 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 83 |
| (b) | All Other Design Costs | 30 |
| (c) | Total | 113 |
| (d) | Contract | 113 |
| (e) | In-house | |
| (4) | Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
LINCOLN MUNICIPAL AIRPORT (ANG), NEBRASKA

4. AREA CONSTR COST INDEX 1.03

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Naval Reserve Center, 1 Army Reserve Training Center, 2 Army National Guard Facilities

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | FIRE STATION | 12,500 SF | 1,850 | AUG 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 8 MAY 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 113-321 | PARKING APRON, JET FUEL STORAGE AND OPERATING COMPLEX | LS | 14,800 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 500 |
| 171-450 | MEDICAL TRAINING FACILITY (ANG/ARNG) | 12,000 SF | 900 |
| 211-111 | ALTER MAINTENANCE HANGAR | LS | 6,400 |
| 821-115 | REPLACE HEATING PLANTS | LS | 1,500 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
LINCOLN MUNICIPAL AIRPORT (ANG), NEBRASKA

11. PERSONNEL STRENGTH AS OF 31 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 348 | 28 | 280 | 40 | 1,136 | 143 | 993 |
| ACTUAL | 330 | 31 | 296 | 3 | 1,123 | 139 | 984 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ NE ANG | 25 | 21 |
| 155 SVS FT | 34 | 27 |
| 155 RG HQ | 62 | 55 |
| 155 MSS SQ | 45 | 46 |
| 155 CAM SQ | 418 | 385 |
| 155 TC SQ | 34 | 38 |
| 155 CES SQ | 124 | 114 |
| 155 SPS FT | 57 | 59 |
| 155 MS FT | 40 | 37 |
| 155 RMS SQ | 120 | 118 |
| 173 RS SQ | 156 | 145 |
| 155 COMMFT | 21 | 22 |
| 8155 STU FT | 0 | 56 |
| TOTALS | 1,136 | 1,123 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| RF-4C Aircraft | 18 | 18 |
| C-12 Aircraft | 1 | 1 |
| KC-135 Aircraft | 10 | 0 |
| Support Equipment | 213 | 199 |
| Vehicle Equivalents | 353 | 353 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| LINCOLN MUNICIPAL AIRPORT (ANG) NEBRASKA | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | NGCB919686 | $1,850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 12,500 | 110 | 1,375 |
| SUPPORTING FACILITIES | | | | 315 |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 75) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 100) |
| SUBTOTAL | | | | 1,690 |
| CONTINGENCY (5%) | | | | 85 |
| TOTAL CONTRACT COST | | | | 1,775 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 89 |
| TOTAL REQUEST | | | | 1,864 |
| TOTAL REQUEST (ROUNDED) | | | | 1,850 |

10. Description of Proposed Construction: Concrete foundation and floor slab, steel frame, and built-up roof. All necessary utilities, access pavements and support. Demolition of building 606 at 8,100 SF.
Air Conditioning: 15 Tons.

11. REQUIREMENT: 12,500 SF ADEQUATE: 0 SUBSTANDARD: 8,100 SF
PROJECT: Fire Station (New Mission).
REQUIREMENT: This project supports the conversion from RF-4C to KC 135 aircraft in January 1994. An adequately sized and properly configured fire station to accommodate additional peraonnel and additional and larger fire vehicles.
CURRENT SITUATION: The base is scheduled to receive additional and much larger vehicles to support the KC 135 aircraft. The fire station is grossly undersized to support the new mission. The building has insufficient vehicle storage, maintenance bays and training space. There are insufficient sleeping accommodations for the fire crews. An addition or upgrade to the existing station is not possible since it would block the entrance to the maintenance hangar. The building is extremely energy inefficient and will be demolished.
IMPACT IF NOT PROVIDED: Inadequate crash and rescue service. Inadequate training. Vehicles will have to be stored in the open with resultant excessive maintenance. Unable to properly respond to a crash or fire incident. Poor morale and lower efficiency. Higher operating costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

LINCOLN MUNICIPAL AIRPORT (ANG) NEBRASKA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | NGCB919686 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 91 AUG 13 |
| | (b) Percent Complete as of Jan 93 | 70% |
| | (c) Date 35% Designed | 92 JUL 23 |
| | (d) Date Design Complete | 93 JUN 15 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 90 |
| | (b) All Other Design Costs | 33 |
| | (c) Total | 123 |
| | (d) Contract | 123 |
| | (e) In-house | |
| (4) | Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| RENO CANNON INTERNATIONAL AIRPORT, NEVADA | 1.15 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Units, 1 Army Reserve Unit, 1 Naval Reserve Unit and 1 Marine Corps Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 116-922 | AIRCRAFT ARRESTING SYSTEMS | LS | 1,830 | AUG 92 | SEP 93 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 460 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 11 MAR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | LS | 1,550 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
RENO CANNON INTERNATIONAL AIRPORT, NEVADA

11. PERSONNEL STRENGTH AS OF 30 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 297 | 55 | 232 | 10 | 1,121 | 145 | 976 |
| ACTUAL | 312 | 35 | 267 | 10 | 1,122 | 139 | 983 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ NV ANG | 29 | 25 |
| 152 CEG SQ | 124 | 123 |
| 152 SVS FT | 27 | 21 |
| 152 CLM SQ | 405 | 363 |
| 152 CMN FT | 21 | 18 |
| 152 MSS FT | 37 | 36 |
| 152 MSS SQ | 50 | 50 |
| 152 RMS SQ | 121 | 127 |
| 152 TCI CI | 28 | 35 |
| 152 TRN GP | 62 | 66 |
| 152 SEP FT | 57 | 57 |
| 192 TRN SQ | 160 | 147 |
| 8152 STU FT | 0 | 54 |
| TOTALS | 1,121 | 1,122 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| RF-4C Aircraft | 18 | 18 |
| C-12J Aircraft | 1 | 1 |
| Support Equipment | 78 | 70 |
| Vehicle Equivalents | 189 | 189 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RENO CANNON INTERNATIONAL AIRPORT NEVADA | AIRCRAFT ARRESTING SYSTEMS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 116-922 | UCTL929831 | $1,830 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AIRCRAFT ARRESTING SYSTEMS | LS | | | 1,300 |
| BARRIERS ON NEW RUNWAY | LS | | | ( 800) |
| BARRIER ON EXISTING RUNWAY | LS | | | ( 500) |
| SUPPORTING FACILITIES | | | | 360 |
| UTILITIES | LS | | | ( 150) |
| PAVEMENTS | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| COMMUNICATIONS | LS | | | ( 100) |
| SUBTOTAL | | | | 1,660 |
| CONTINGENCY (5%) | | | | 83 |
| TOTAL CONTRACT COST | | | | 1,743 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 87 |
| TOTAL REQUEST | | | | 1,830 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (1,300) |

10. Description of Proposed Construction: Construct two each BAK 12/14 arresting systems on runway 16L/34R to include, electrical service, paving and communications to the control tower. Modify existing runway 34L to install a barrier until the new runway is completed. Cut runway, install barrier foundations and electrical systems. All utilities and support.

11. REQUIREMENT: 2 EA ADEQUATE: 0 SUBSTANDARD: 2 EA

PROJECT: Aircraft Arresting Systems (Current Mission).

REQUIREMENT: The base requires a safe system to stop jet fighter aircraft on the runway in case of emergency during a take-off abort or an inflight emergency.

CURRENT SITUATION: The existing BAK 12 on runway 16R is not configured to accommodate approach end arresting. The assigned RF-4C aircraft must now use an existing 1000 foot asphalt runway overrun to execute an emergency approach barrier engagement. In 1988, an aircraft mishap was partly attributed to inadequate barrier and validated the need for a BAK 12/14. The BAK 12 on runway 34L was in similar non-conforming configuration until May 1992 when another RF-4C aircraft engagement of the barrier resulted in more damage. An expeditionary barrier has been installed as a temporary measure and is unacceptable for long term. The Reno airport authority will be constructing a new runway during 1993-1994 and are willing to incorporate a BAK 12/14 in their design and construction program. This project will also install a BAK 14 on the existing runway and allow the removal of the temporary expeditionary barrier which is interfering with the commercial traffic for small commuter aircraft.

IMPACT IF NOT PROVIDED: Safety is compromised. Potential of a major aircraft accident exists. Probability for aircraft and pilot loss will increase with the passage of time, number of flight operations and

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

RENO CANNON INTERNATIONAL AIRPORT NEVADA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AIRCRAFT ARRESTING SYSTEMS | UCTL929831 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 31 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 75 |
| (b) All Other Design Costs | 20 |
| (c) Total | 95 |
| (d) Contract | 95 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RENO CANNON INTERNATIONAL AIRPORT NEVADA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | UCTL909601 | $460 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 320 |
| SUPPORTING FACILITIES | | | | 76 |
| UTILITIES | LS | | | ( 5) |
| PAVEMENTS | LS | | | ( 5) |
| SITE RESTORATION | LS | | | ( 66) |
| SUBTOTAL | | | | 396 |
| CONTINGENCY (10%) | | | | 40 |
| TOTAL CONTRACT COST | | | | 436 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 22 |
| TOTAL REQUEST | | | | 458 |
| TOTAL REQUEST (ROUNDED) | | | | 460 |

10. Description of Proposed Construction: Replace 5 tanks and remove only 6 others. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has aet atandards that require all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention systems by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA. The 6 tanks being removed are used for heating oil which is being replaced with natural gas.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage could have the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

RENO CANNON INTERNATIONAL AIRPORT NEVADA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | UCTL909601 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 25 |
| (b) All Other Design Costs | 10 |
| (c) Total | 35 |
| (d) Contract | 35 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>PEASE AIR NATIONAL GUARD, NEW HAMPSHIRE | | 4. AREA CONSTR COST INDEX<br>1.10 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
4 Army Reserve Facilities, 3 Coast Guard Facilities

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|---|
| 121-122 | UPGRADE KC-135 HYDRANT REFUELING SYSTEM | LS | | 5,100 | DEC 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 JUN 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 171-450 | ALTER MEDICAL TRAINING | 9,700 | SF | 490 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
PEASE AIR NATIONAL GUARD, NEW HAMPSHIRE

11. PERSONNEL STRENGTH AS OF 13 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 354 | 44 | 309 | 1 | 1,124 | 145 | 979 |
| ACTUAL | 315 | 40 | 272 | 3 | 1,049 | 133 | 916 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ NH ANG | 25 | 23 |
| 133 ARH SQ | 74 | 72 |
| 157 SVS FT | 30 | 25 |
| 157 ARH GP | 69 | 68 |
| 157 CEG SQ | 171 | 158 |
| 157 CLI CI | 55 | 48 |
| 157 CLM SQ | 359 | 328 |
| 157 CMN FT | 21 | 19 |
| 157 MSS FT | 41 | 34 |
| 157 MSS SQ | 46 | 45 |
| 157 RMS SQ | 120 | 124 |
| 157 SEP FT | 75 | 73 |
| 8157 STU FT | 38 | 32 |
| TOTALS | 1,124 | 1,049 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| KC-135 Aircraft | 10 | 10 |
| Support Equipment | 294 | 250 |
| Vehicle Equivalents | 350 | 453 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PEASE AIR NATIONAL GUARD NEW HAMPSHIRE | UPGRADE KC-135 HYDRANT REFUELING SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 121-122 | SZDT919509 | $5,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE KC-135 HYDRANT REFUELING SYSTEM | LS | | | 2,972 |
| REPLACE 4 HYDRANT FUELING PITS | LS | | | ( 1,200) |
| OPERATING STORAGE, PUMPS AND CONTROLS | LS | | | ( 650) |
| PUMP HOUSE AND HYDRANT OPERATIONS | SF | 1,200 | 185 | ( 222) |
| JET FUEL STORAGE | BL | 5,000 | 180 | ( 900) |
| SUPPORTING FACILITIES | | | | 1,450 |
| UTILITIES, SITE IMPROVEMENTS | LS | | | ( 900) |
| CUT AND REPLACE PARKING APRON | LS | | | ( 550) |
| SUBTOTAL | | | | 4,422 |
| CONTINGENCY (10%) | | | | 442 |
| TOTAL CONTRACT COST | | | | 4,864 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 243 |
| TOTAL REQUEST | | | | 5,107 |
| TOTAL REQUEST (ROUNDED) | | | | 5,100 |

10. Description of Proposed Construction: Phillips Type III Hydrant Fueling System with operating tanks, pumps, valves, controls and fuel lines. Hydrant pits installed under existing aircraft parking apron. Above ground fuel storage tank, masonry pump house, fiberglass or steel piping, concrete pavement for fuel truck stand and asphalt for parking. Includes fire protection, utilities and site work.
Air Conditioning: 1 Ton.

11. REQUIREMENT: As required.
PROJECT: Upgrade Hydrant Refueling System (Current Mission).
REQUIREMENT: The base requires an environmentally safe and efficient system to refuel KC-135's. This project replaces the existing Prichard Type II hydrant system and provides an additional 5,000 BL of operating jet fuel storage. This replacement hydrant fuel system and additional operating fuel storage is required for the units KC-135 air refueling mission.
CURRENT SITUATION: This is a level II environmental compliance project. The existing hydrant fueling system is over 30 years old and requires excessive maintenance and does not meet standards. Replacement parts are not available and the system does not meet current environmental requirements. The system, along with one 10,000 BL bulk fuel storage tank, was transfered to the ANG after the closure of Pease AFB. The repair and upgrade of this system by the Air Force was not accomplished prior to closure. Leak potential is high and the systems capability does not meet mission requirements. The fuel storage is inadequate for the mission. Two tanks are needed and only one exists. If the fuel in that one tank, becomes contaminated the entire system will be shut down.
IMPACT IF NOT PROVIDED: The unit is unable to fully support the Air Force

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| PEASE AIR NATIONAL GUARD NEW HAMPSHIRE | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| UPGRADE KC-135 HYDRANT REFUELING SYSTEM | SZDT919509 |

flying mission. Environmental damage is highly possible and limited bulk fuel storage will stop all flying activities if quality problems develop. Violation of state and federal EPA requirement and possible fines.
ADDITIONAL: An exception to the economic analysis has been prepared. The project directly supports a mission or activity for which there is no available alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

PEASE AIR NATIONAL GUARD NEW HAMPSHIRE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE KC-135 HYDRANT REFUELING SYSTEM | SZDT919509 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 DEC 04 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 240 |
| (b) All Other Design Costs | 90 |
| (c) Total | 330 |
| (d) Contract | 330 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ATLANTIC CITY INTERNATIONAL AIRPORT, NEW JERSEY

4. AREA CONSTR COST INDEX 1.10

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Facility, 4 Army National Guard Armories, 1 Coast Guard Training Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,900 | NOV 91 | JUN 93 |
| 730-142 | FIRE STATION | 9,800 | SF | 1,350 | MAR 89 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 21 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 171-447 | COMM AND SECURITY POLICE | 13,000 | SF | 2,000 |
| 171-450 | ADD TO MEDICAL TRAINING FACILITY | 2,700 | SF | 375 |
| 211-157 | ADD TO ACFT ENGINE INSP & REPAIR SHOP | 4,960 | SF | 490 |
| 422-264 | STORAGE IGLOOS | 6,400 | SF | 1,100 |
| 880-232 | FIRE SUPPRESSION SYSTEM | | LS | 1,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
ATLANTIC CITY INTERNATIONAL AIRPORT, NEW JERSEY

11. PERSONNEL STRENGTH AS OF 31 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 337 | 4 | 50 | 283 | 989 | 105 | 884 |
| ACTUAL | 337 | 4 | 50 | 283 | 907 | 91 | 816 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 119 FIN SQ | 40 | 40 |
| 177 CEG SQ | 173 | 137 |
| 177 TCI CI | 52 | 49 |
| 177 CLM SQ | 370 | 338 |
| 177 FIN GP | 61 | 48 |
| 177 MSS FT | 37 | 32 |
| 177 MSS SQ | 50 | 44 |
| 177 RMS SQ | 121 | 107 |
| 177 SEP FT | 85 | 83 |
| 8177 STU FT | 0 | 29 |
| TOTALS | 989 | 907 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 20 | 20 |
| Support Equipment | 115 | 103 |
| Vehicle Equivalents | 267 | 276 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ATLANTIC CITY INTERNATIONAL AIRPORT<br>NEW JERSEY | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | AORC909637 | $1,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,400 |
| SUPPORTING FACILITIES | | | | 256 |
| UTILITIES | LS | | | ( 14) |
| PAVEMENTS | LS | | | ( 14) |
| SITE RESTORATION | LS | | | ( 228) |
| SUBTOTAL | | | | 1,656 |
| CONTINGENCY (10%) | | | | 166 |
| TOTAL CONTRACT COST | | | | 1,822 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 91 |
| TOTAL REQUEST | | | | 1,913 |
| TOTAL REQUEST (ROUNDED) | | | | 1,900 |

10. Description of Proposed Construction: Replace 14 tanks and remove only 24 others. Excavate and remove the tanks, dispose of the tanks and tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade of all UST regulated by 40 CFR 280 to new construction standards is required. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ATLANTIC CITY INTERNATIONAL AIRPORT NEW JERSEY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | AORC909637 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 JUN 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 95 |
| (b) All Other Design Costs | 40 |
| (c) Total | 135 |
| (d) Contract | 135 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ATLANTIC CITY INTERNATIONAL AIRPORT<br>NEW JERSEY | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | A0RC000758 | $1,350 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 9,800 | 105 | 1,029 |
| SUPPORTING FACILITIES | | | | 190 |
| UTILITIES | LS | | | ( 60) |
| PAVEMENTS | LS | | | ( 90) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| COMMUNICATIONS | LS | | | ( 30) |
| SUBTOTAL | | | | 1,219 |
| CONTINGENCY (5%) | | | | 61 |
| TOTAL CONTRACT COST | | | | 1,280 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 64 |
| TOTAL REQUEST | | | | 1,344 |
| TOTAL REQUEST (ROUNDED) | | | | 1,350 |

10. Description of Proposed Construction: Steel and masonry building with concrete drive to aircraft apron and paved access road, walks, and parking. Communication support and associated utilities. Building 00225 at 5,099 SF will be returned to the airport authority.
Air Conditioning: 5 Tons.

11. REQUIREMENT: 9,800 SF ADEQUATE: 0 SUBSTANDARD: 5,099 SF
PROJECT: Fire Station (Current Mission).
REQUIREMENT: To provide crash fire rescue and fire protection services. Eight vehicles are required to be housed in the station. The base is required to provide 24-hour fire protection due to the F-16 aircraft on Continental Air Defense alert and drug interdiction mission. The fire station must have sleeping quarters and kitchenette areas.
CURRENT SITUATION: The fire station is currently housed in the old airport terminal building constructed in 1943. It is grossly undersized and poorly configured and cannot be upgraded. Space is not available for the equipment, vehicles and training. The building is also located across the runway from the ANG aircraft parking area. Vehicles must be parked outside and training must be conducted across the field in the Operations and Training building on a space available basis. From the remote location, the unit cannot meet their response time. The existing facility will be returned to the airport authority per agreement.
IMPACT IF NOT PROVIDED: Degraded training and higher operating costs. Slow response time for a structural fire increases the potential loss or damage to facilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ATLANTIC CITY INTERNATIONAL AIRPORT NEW JERSEY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | AORC000758 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 MAR 13 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 15 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 72 |
| (b) | All Other Design Costs | 44 |
| (c) | Total | 116 |
| (d) | Contract | 116 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
KIRTLAND AIR FORCE BASE, NEW MEXICO

4. AREA CONSTR COST INDEX 1.00

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 2 Army Reserve Facilities, 1 Naval/Marine Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 116-665 | POWER CHECK PAD WITH SOUND SUPPRESSOR | | LS | 800 | MAR 90 | MAR 93 |
| 171-445 | ALTER OPERATIONAL TRAINING FACILITY | 19,400 | SF | 390 | SEP 92 | SEP 93 |
| 218-712 | ALTER MAINTENANCE SHOPS | | LS | 345 | MAY 90 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 28 JAN 93 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,000 |
| 141-753 | ADD TO AND ALTER SQUADRON OPERATIONS FACILITY | 22,300 | SF | 1,450 |
| 211-111 | ALTER AIRCRAFT MAINTENANCE HANGAR AND SHOPS | 32,200 | SF | 1,000 |
| 211-157 | F-16 AIRCRAFT ENGINE AND NON DESTRUCTIVE INSPECTION SHOP | 16,500 | SF | 1,950 |
| 211-159 | F-16 AIRCRAFT CORROSION CONTROL FACILITY | 11,300 | SF | 1,600 |
| 216-642 | MUNITIONS MAINTENANCE | 17,900 | SF | 2,500 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
KIRTLAND AIR FORCE BASE, NEW MEXICO

11. PERSONNEL STRENGTH AS OF 1 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 365 | 37 | 304 | 24 | 1,186 | 127 | 1,059 |
| ACTUAL | 360 | 37 | 299 | 24 | 1,049 | 118 | 931 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ NM ANG | 30 | 28 |
| 150 TFG HQ | 59 | 59 |
| 150 TCI CI | 33 | 40 |
| 150 MSS SQ | 45 | 43 |
| 150 CLM SQ | 563 | 451 |
| 150 CEG SQ | 100 | 92 |
| 150 SVS FT | 34 | 32 |
| 150 SEP FT | 57 | 61 |
| 150 RMS SQ | 120 | 108 |
| 150 CMN FT | 21 | 24 |
| 150 MSS FT | 33 | 29 |
| 188 TFS SQ | 56 | 55 |
| 8150 STU FT | 35 | 27 |
| TOTALS | 1,186 | 1,049 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 0 |
| C-26 Aircraft | 1 | 1 |
| A-7 Aircraft | 24 | 32 |
| Support Equipment | 85 | 80 |
| Vehicle Equivalents | 171 | 82 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE NEW MEXICO | POWER CHECK PAD WITH SOUND SUPPRESSOR |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 116-665 | MHMV000972 | $800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| POWER CHECK PAD WITH SOUND SUPPRESSOR | LS | | | 580 |
| SUPPORTING FACILITIES | | | | 145 |
| UTILITIES | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 15) |
| DEMOLITION | LS | | | ( 10) |
| RELOCATE LOX/LIN | LS | | | ( 40) |
| SUBTOTAL | | | | 725 |
| CONTINGENCY (5%) | | | | 36 |
| TOTAL CONTRACT COST | | | | 761 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 38 |
| TOTAL REQUEST | | | | 799 |
| TOTAL REQUEST (ROUNDED) | | | | 800 |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (1,300) |

10. Description of Proposed Construction: Provide reinforced concrete foundation and reinforced concrete pad for the mounting of separately funded sound suppressor system equipment items. Provide service road, waste water collection system, oil/water separator, concrete access apron, utilities, and site improvements. Demolish Building 1031 (1443 SF). Relocate LOX/LIN.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Power Check Pad with Sound Suppressor (New Mission).

REQUIREMENT: This project supports the coversion from A-7 to F-16 aircraft in October 1992. Adequate facilities are necessary to support the aircraft engine maintenance functions associated with the F-16 aircraft. Testing, calibration and maintenance of aircraft engines on the ground requires long periods of normal engine and afterburner thrust that creates a environmental noise hazard for nearby on and off base facilities and personnel that includes several thousand adjacent Air Force base housing units, an Air Force Hospital, a private hospital complex, and a Veterans' Administration hospital. A facility that provides an enclosed controlled test environment and lowers the noise to EPA acceptable levels while providing for a clean environment is required.

CURRENT SITUATION: The base does not have a suppressed power check pad. Engine testing is being done in the open by anchoring the aircraft to a concrete slab and utilizing a blast deflector to direct the blast exhaust upwards. The engines are run without suppression and in most cases not using 100 percent power there by negating the full and complete value of the testing. This creates considerable noise which disturbs and affects the on and off base communities. With the arrival of the F-16 aircraft, which produces more noise than the current aircraft, it will be mandatory

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POWER CHECK PAD WITH SOUND SUPPRESSOR | MHMV000972 |

that a suppressed engine testing facility be constructed at this base. Engine testing cannot be accomplished outside during inclement weather. In order to reduce noise levels to acceptable EPA environmental standards all testing must be done in a suppressed mode.
IMPACT IF NOT PROVIDED: Proper unsuppressed engine testing will not be allowed by the active duty because of the proximity to the hospital complex and the family housing units. With limits imposed on the testing, engines might not receive the proper maintenance and repairs required. EPA could impose fines. Engines might have to be transported off base for testing if proper facilities are not provided.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| POWER CHECK PAD WITH SOUND SUPPRESSOR | MHMV000972 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 MAR 02 |
| (b) Percent Complete as of Jan 93 | 95% |
| (c) Date 35% Designed | 92 JUN 04 |
| (d) Date Design Complete | 93 MAR 14 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 32 |
| (b) All Other Design Costs | 22 |
| (c) Total | 54 |
| (d) Contract | 54 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations:

| EQUIPMENT NOMENCLATURE | PROCURING APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HANCOCK FIELD ANG, NEW YORK

4. AREA CONSTR COST INDEX 1.14

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Telecommunications Center, 4 Army National Guard Armories, 1 Naval Reserve Center, 1 Marine Reserve Center and 2 Army Reserve Units

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | FIRE STATION | 9,100 SF | 1,350 | FEB 89 | NOV 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 NOV 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 920 |
| 171-450 | MEDICAL TRAINING FACILITY | 10,500 SF | 1,700 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HANCOCK FIELD ANG, NEW YORK

11. PERSONNEL STRENGTH AS OF 1 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 390 | 12 | 79 | 299 | 1,435 | 176 | 1,259 |
| ACTUAL | 263 | 12 | 79 | 172 | 1,346 | 152 | 1,194 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 108 TCS SQ | 90 | 83 |
| 113 TCC SQ | 91 | 89 |
| 138 TFS SQ | 51 | 45 |
| 152 TCC GP | 145 | 112 |
| 174 TFW HQ | 55 | 48 |
| 174 AG RNG | 11 | 9 |
| 174 CLM SQ | 491 | 427 |
| 174 MSS SQ | 45 | 48 |
| 174 MSS FT | 34 | 37 |
| 174 CMN FT | 21 | 17 |
| 174 SEP FT | 57 | 65 |
| 174 TCI CI | 70 | 56 |
| 174 CEG SQ | 124 | 126 |
| 174 SVS FT | 27 | 26 |
| 174 RMS SQ | 120 | 131 |
| 174 ALO | 3 | 3 |
| 8174 STU FT | 0 | 24 |
| TOTALS | 1,435 | 1,346 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 A/B Aircraft | 18 | 18 |
| TPS 43E Radar | 2 | 2 |
| Support Equipment | 200 | 198 |
| Vehicle Equivalents | 660 | 846 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| HANCOCK FIELD ANG NEW YORK | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | HAAW889773 | $1,350 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 9,100 | 100 | 910 |
| SUPPORTING FACILITIES | | | | 325 |
| UTILITIES | LS | | | ( 90) |
| PAVEMENTS | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| COMMUNICATION | LS | | | ( 10) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 50) |
| SUBTOTAL | | | | 1,235 |
| CONTINGENCY (5%) | | | | 62 |
| TOTAL CONTRACT COST | | | | 1,297 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 65 |
| TOTAL REQUEST | | | | 1,362 |
| TOTAL REQUEST (ROUNDED) | | | | 1,350 |

10. Description of Proposed Construction: Reinforced concrete floors and walls include necessary structural, mechanical and electrical systems. Concrete pavements and driveways. All utilities and support. Demolish Building 605 (1,297 SF) and Building 609 (1,017 SF).
Air Conditioning: 8 Tons.

11. REQUIREMENT: 9,100 SF ADEQUATE: 0 SUBSTANDARD: 2,314 SF
PROJECT: Fire Station (Current Mission).
REQUIREMENT: An adequately sized and properly configured facility to support crash and fire rescue operations. This includes apparatus bays, storage space, extinguisher maintenance shop, kitchen and dining area, control room, classroom, administrative areas and bunkrooms for 13 full time fire fighters.
CURRENT SITUATION: The existing fire station is too small to properly support the fire protection and crash and rescue operations. Only four of the seven fire vehicles fit into the undersized fire station bays. The vehicles are stored and maintained outside and subject to extensive corrosion and freezing weather. Fire vehicles that contain water cannot be stored outside during freezing weather causing a regular rotation of vehicles based on weather and mission requirements. The bunk rooms, locker rooms and kitchen are currently located next to the fire station on the 2nd floor of the maintenance hangar. This space needs to be returned to aircraft maintenance. The building can be easily converted at minimal cost for flightline maintenance and non-powered AGE.
IMPACT IF NOT PROVIDED: Improper training. Equipment exposed to the elements which accelerates deterioration. Hardships on the overall fire protection operation which ultimately jeopardizes crash rescue and fire fighting capabilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

HANCOCK FIELD ANG NEW YORK

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | HAAW889773 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) | Status: | |
| | (a) Date Design Started | 89 FEB 01 |
| | (b) Percent Complete as of Jan 93 | 100% |
| | (c) Date 35% Designed | 90 NOV 23 |
| | (d) Date Design Complete | 92 NOV 01 |
| (2) | Basis: | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) | Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| | (a) Production of Plans and Specifications | 64 |
| | (b) All Other Design Costs | 27 |
| | (c) Total | 91 |
| | (d) Contract | 91 |
| | (e) In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NIAGARA FALLS INTERNATIONAL AIRPORT, NEW YORK

4. AREA CONSTR COST INDEX 1.14

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, and daily technician and AGR.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Reserve - On Base 1 Army National Guard - Niagara Falls, 4 Miles

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 141-753 | ALTER KC-135 OPERATIONS FACILITIES | 36,300 SF | 1,650 | FEB 91 | MAR 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 18 NOV 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 111-115 | UPGRADE RUNWAY OVERRUN | LS | 6,000 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 640 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NIAGARA FALLS INTERNATIONAL AIRPORT, NEW YORK

11. PERSONNEL STRENGTH AS OF 25 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 395 | 25 | 365 | 5 | 1,043 | 107 | 936 |
| ACTUAL | 353 | 25 | 323 | 5 | 993 | 107 | 886 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 107 GROUP | 63 | 58 |
| 136 FT SQ | 44 | 36 |
| 107 CAM | 408 | 382 |
| 107 CES | 136 | 116 |
| 107 MIS SP | 45 | 42 |
| 107 MIS FT | 41 | 35 |
| 107 CLINIC | 55 | 49 |
| 107 RMS | 119 | 109 |
| 107 SEC FT | 86 | 83 |
| 107 SEV FT | 25 | 22 |
| 107 FG/DET | 21 | 18 |
| 8107 ST FL | 0 | 43 |
| TOTALS | 1,043 | 993 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 20 |
| KC-135 Aircraft | 10 | 0 |
| Support Equipment | 130 | 103 |
| Vehicle Equivalents | 212 | 212 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NIAGARA FALLS INTERNATIONAL AIRPORT NEW YORK | ALTER KC-135 OPERATIONS FACILITIES |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 141-753 | RVK0919604 | $1,650 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER KC-135 OPERATIONS FACILITIES | SF | 36,300 | | 1,125 |
| ALTER BUILDING 912 | SF | 21,500 | 42 | ( 903) |
| ALTER BUILDING 936 | SF | 14,800 | 15 | ( 222) |
| SUPPORTING FACILITIES | | | | 300 |
| PRE WIRED WORK STATIONS | LS | | | ( 300) |
| SUBTOTAL | | | | 1,425 |
| CONTINGENCY (10%) | | | | 143 |
| TOTAL CONTRACT COST | | | | 1,568 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 78 |
| TOTAL REQUEST | | | | 1,646 |
| TOTAL REQUEST (ROUNDED) | | | | 1,650 |

10. Description of Proposed Construction: Alterations of Buildings 912 and 936 to accommodate all functions of squadron operations, medical training facilities, and air base operability. Relocate walls; relocate and extend utilities. Provide fire protection, all utilities and support. Air Conditioning: 20 Tons.

11. REQUIREMENT: 36,300 SF ADEQUATE: 0 SUBSTANDARD: 36,300 SF
PROJECT: Alter KC-135 Operations Facilities (New Mission).
REQUIREMENT: Adequately sized and properly configured spaces for war planning and readiness functions of squadron operations, medical training, air base operability, life support, briefing rooms, associated administrative offices, security vault, and storage are required.
CURRENT SITUATION: Building 936 cannot be expanded to accommodate the squadron operations functions and does not have a properly sized vault for new aircraft operations. This building will be altered to accommodate medical training, disaster preparedness and financial management offices. Disaster preparedness is located temporarily in Building 326 which needs to be returned to AFRES. Building 912 provides space for munitions, avionics, and associated administrative offices for the F-16 aircraft. These functions are no longer needed for the KC-135 aircraft. Building 912 will be altered to provide squadron operations, including life support, briefing rooms, and associated administrative offices for planning and readiness functions.
IMPACT IF NOT PROVIDED: Unable to store and work on classified documents. Unable to reach full operational capability. Inefficient training.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

NIAGARA FALLS INTERNATIONAL AIRPORT NEW YORK

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER KC-135 OPERATIONS FACILITIES | RVK0919604 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 FEB 28 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 JUN 18 |
| (d) | Date Design Complete | 93 MAR 02 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 74 |
| (b) | All Other Design Costs | 40 |
| (c) | Total | 114 |
| (d) | Contract | 114 |
| (e) | In-house | |
| (4) Construction Start | | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SCHENECTADY AIRPORT ANG, NEW YORK

4. AREA CONSTR COST INDEX 1.14

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
8 National Guard Armories, Naval Reserve and Army Reserve Centers

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 1,050 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 NOV 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-450 | MEDICAL TRAINING AND SECURITY POLICE OPERATIONS FACILITIES | 16,300 SF | 1,450 |
| 730-142 | FIRE STATION AND AGE FACILITY | 16,000 SF | 1,800 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SCHENECTADY AIRPORT ANG, NEW YORK

11. PERSONNEL STRENGTH AS OF 30 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 229 | 2 | 39 | 188 | 1,107 | 187 | 920 |
| ACTUAL | 225 | 2 | 38 | 185 | 958 | 184 | 774 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ TAC GP | 60 | 54 |
| 109 RMS SQ | 122 | 101 |
| 109 MSS SQ | 46 | 40 |
| 109 TAC CL | 68 | 58 |
| 109 CAM SQ | 173 | 164 |
| 109 MSS FT | 41 | 39 |
| 109 CIV SQ | 148 | 141 |
| 109 MAP FT | 69 | 60 |
| 109 SEC FT | 57 | 46 |
| 139 TAC SQ | 96 | 91 |
| 139 AEV FT | 160 | 121 |
| 109 SER FT | 25 | 19 |
| 8109 STU FT | 42 | 24 |
| TOTALS | 1,107 | 958 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H | 8 | 8 |
| C12J | 1 | 1 |
| Support Equipment | 61 | 53 |
| Vehicle Equivalents | 230 | 230 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SCHENECTADY AIRPORT ANG NEW YORK | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | VBDZ909626 | $1,050 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 740 |
| SUPPORTING FACILITIES | | | | 154 |
| UTILITIES | LS | | | ( 17) |
| PAVEMENTS | LS | | | ( 17) |
| SITE RESTORATION | LS | | | ( 120) |
| SUBTOTAL | | | | 894 |
| CONTINGENCY (10%) | | | | 89 |
| TOTAL CONTRACT COST | | | | 983 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 49 |
| TOTAL REQUEST | | | | 1,032 |
| TOTAL REQUEST (ROUNDED) | | | | 1,050 |

10. Description of Proposed Construction: Replace 17 underground storage tanks and remove only 3 others. Excavate and remove the tanks and dispose of the tanks, tank residue and contaminated soil and restore site.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed , the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage could have the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SCHENECTADY AIRPORT ANG NEW YORK

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | VBDZ909626 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 55 |
| (b) All Other Design Costs | 20 |
| (c) Total | 75 |
| (d) Contract | 75 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>STEWART INTERNATIONAL AIRPORT, NEW YORK | | 4. AREA CONSTR COST INDEX<br>1.14 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per month, 15 days annual training per year, daily use for technician force, and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
Army National Guard Units, two Army Reserve units, one Naval Reserve unit, one Marine Corpa Reserve Unit (colocated) and the U. S. Military Academy.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 831-145 | INDUSTRIAL WASTE HOLDING POND | LS | 320 | APR 92 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 18 NOV 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
STEWART INTERNATIONAL AIRPORT, NEW YORK

11. PERSONNEL STRENGTH AS OF 1 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 682 | 32 | 196 | 454 | 1,795 | 158 | 1,637 |
| ACTUAL | 660 | 32 | 196 | 432 | 1,697 | 149 | 1,548 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ NYANG | 45 | 40 |
| 105 AG | 169 | 154 |
| 105 AMS | 118 | 95 |
| 105 FMS | 358 | 302 |
| 105 OMS | 229 | 197 |
| 105 APS | 124 | 107 |
| 105 CES | 148 | 144 |
| 105 SVF | 43 | 35 |
| 105 MSS | 48 | 46 |
| 105 MSF | 41 | 44 |
| 105 RMS | 122 | 129 |
| 105 SPF | 81 | 85 |
| 137 ALS | 166 | 149 |
| 105 USAF | 67 | 67 |
| 552 AF BD | 36 | 16 |
| 8105 STU FT | 0 | 87 |
| TOTALS | 1,795 | 1,697 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-5A Aircraft | 12 | 12 |
| Support Equipment | 172 | 149 |
| Vehicle Equivalents | 554 | 727 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>HECTOR INTERNATIONAL AIRPORT, NORTH DAKOTA | | 4. AREA CONSTR COST INDEX<br>1.04 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army Reserve Facility, 1 Army National Guard Org Maint Shop and 1 Naval Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 871-183 | UPGRADE STORM DRAINAGE | LS | 400 | APR 92 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 8 SEP 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 442-758 | ADD TO AND ALTER BASE SUPPLY COMPLEX | 35,000 SF | 1,800 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
HECTOR INTERNATIONAL AIRPORT, NORTH DAKOTA

11. PERSONNEL STRENGTH AS OF 9 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 386 | 33 | 348 | 5 | 1,256 | 137 | 1,119 |
| ACTUAL | 376 | 33 | 338 | 5 | 1,216 | 130 | 1,086 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 119 | CEG SQ | 248 | 232 |
| 119 | TCI CI | 55 | 48 |
| 119 | CLM SQ | 408 | 402 |
| 119 | FIN GP | 78 | 68 |
| 119 | MSS FT | 41 | 40 |
| 119 | MSS SQ | 44 | 40 |
| 119 | RMS SQ | 119 | 116 |
| 119 | SEP FT | 85 | 84 |
| 119 | SVS FT | 60 | 55 |
| 178 | FIN SQ | 44 | 39 |
| 8119 | STU FT | 32 | 50 |
| DET | 1 | 18 | 18 |
| 119 | HQ | 24 | 24 |
| | TOTALS | 1,256 | 1,216 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 21 |
| C-26B Aircraft | 1 | 1 |
| Support Equipment | 384 | 371 |
| Vehicle Equivalents | 331 | 403 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>TULSA INTERNATIONAL AIRPORT, OKLAHOMA | | 4. AREA CONSTR COST INDEX<br>0.88 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army National Guard Medical Company, 1 Army Reserve Armory

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | ADD TO AND ALTER FIRE STATION | 7,700 SF | 460 | MAR 92 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 28 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 850 |
| 131-111 | COMPOSITE COMMUNICATIONS FACILITY | 18,600 SF | 1,900 |
| 171-445 | OPS AND TRAINING FACILITY | 14,000 SF | 2,250 |
| 722-351 | DINING HALL AND MEDICAL TRAINING FACILITY | 32,400 SF | 3,300 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
TULSA INTERNATIONAL AIRPORT, OKLAHOMA

11. PERSONNEL STRENGTH AS OF 25 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 346 | 24 | 319 | 3 | 1,264 | 114 | 1,150 |
| ACTUAL | 304 | 21 | 280 | 3 | 1,212 | 109 | 1,103 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 125 TFS SQ | 172 | 145 |
| 125 WEA FT | 13 | 14 |
| 138 TFG HQ | 56 | 53 |
| 138 MSS SQ | 45 | 45 |
| 138 TCI CI | 35 | 32 |
| 138 CEG SQ | 124 | 115 |
| 138 SEP FT | 57 | 54 |
| 138 RMS SQ | 101 | 95 |
| 138 CLM SQ | 394 | 359 |
| 138 CMN FT | 21 | 17 |
| 138 MSS FT | 40 | 38 |
| 138 SVS FT | 34 | 30 |
| 219 EIS SQ | 172 | 145 |
| 8183 STD FT | 0 | 70 |
| TOTALS | 1,264 | 1,212 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 0 |
| A-7 D/K Aircraft | 18 | 22 |
| Support Equipment | 127 | 111 |
| Vehicle Equivalents | 254 | 256 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TULSA INTERNATIONAL AIRPORT OKLAHOMA | ADD TO AND ALTER FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | XHZG919638 | $460 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER FIRE STATION | SF | 7,700 | | 330 |
| ADD TO FIRE STATION | SF | 2,700 | 85 | ( 230) |
| ALTER FIRE STATION | SF | 5,000 | 20 | ( 100) |
| SUPPORTING FACILITIES | | | | 65 |
| UTILITIES | LS | | | ( 30) |
| PAVEMENTS | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| ASBESTOS REMOVAL | LS | | | ( 20) |
| SUBTOTAL | | | | 395 |
| CONTINGENCY (10%) | | | | 40 |
| TOTAL CONTRACT COST | | | | 435 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 22 |
| TOTAL REQUEST | | | | 457 |
| TOTAL REQUEST (ROUNDED) | | | | 460 |

10. Description of Proposed Construction: Addition: with masonry walls, concrete slab, steel frame and built-up roof. Alter existing area for office, classroom and bunkrooms. Modify existing utilities and services as necessary.

11. REQUIREMENT: 7,700 SF ADEQUATE: 0 SUBSTANDARD: 5,000 SF

PROJECT: Add to and Alter Fire Station (Current Mission).

REQUIREMENT: An adequately sized and properly configured facility for an increase of fire fighting apparatus to a total of six, and fire fighting personnel to support a 24 hour per day operation.

CURRENT SITUATION: The existing Fire Station is too small and has an inadequate number of apparatus stalls, one small latrine, no bunkroom, and no kitchen. The unit converts to F-16 fighter aircraft in FY93 and the crash/fire rescue services of the Fire Department has been enhanced to provide proper protection of the new aircraft. A temporary facility is leased for a maximum of three years to cover the shortfall until this project is completed.

IMPACT IF NOT PROVIDED: Two of the fire fighting vehicles are removed from service during winter as they will be exposed to freezing weather. The living quarters and training facilities for the fire fighters remain in leased modulars. Essential services are diminished during the winter.

ADDITIONAL: Due to arrival of new aircraft in 1993, facilities will be or are currently being leased for fire fighter bunk rooms, until this military construction project corrects the deficiency.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

TULSA INTERNATIONAL AIRPORT OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FIRE STATION | XHZG919638 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 MAR 17 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 DEC 30 |
| (d) | Date Design Complete | 93 SEP 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 23 |
| (b) | All Other Design Costs | 10 |
| (c) | Total | 33 |
| (d) | Contract | 33 |
| (e) | In-house | |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
WILL ROGERS WORLD AIRPORT, OKLAHOMA

4. AREA CONSTR COST INDEX 0.88

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
4 Army National Guard Facilities, 4 Army Reserve Facilities, 1 Air Force Reserve Facility, 1 Naval Reserve Facility and 1 Marine Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 442-758 | MOBILITY EQUIPMENT STORAGE WAREHOUSE | 12,000 SF | 950 | JAN 92 | FEB 93 |
| 722-351 | COMPOSITE SUPPORT FACILITY | 39,600 SF | 3,900 | APR 88 | DEC 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 28 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-445 | ADD TO OPERATIONS AND TRAINING FACILITY | 3,500 SF | 480 |
| 171-449 | AEROMEDICAL TRAINING FACILITY | 14,000 SF | 1,950 |
| 171-873 | AERIAL PORT/ALCE TRAINING FACILITY | 14,400 SF | 2,100 |
| 730-142 | FIRE STATION | 9,300 SF | 1,250 |
| 730-835 | ADD TO AND ALTER SECURITY POLICE FACILITY | 6,700 SF | 450 |
| 843-000 | BASE FIRE PROTECTION SYSTEMS | LS | 3,400 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
WILL ROGERS WORLD AIRPORT, OKLAHOMA

11. PERSONNEL STRENGTH AS OF 17 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 294 | 26 | 228 | 40 | 1,313 | 194 | 1,119 |
| ACTUAL | 293 | 26 | 228 | 39 | 1,303 | 188 | 1,115 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ OK ANG | 27 | 27 |
| 137 TAW HQ | 68 | 68 |
| 137 CLM SQ | 172 | 171 |
| 137 MSS SQ | 45 | 44 |
| 137 TCI CI | 52 | 50 |
| 137 MAP SQ | 69 | 66 |
| 137 CEG SQ | 124 | 124 |
| 137 SVS FT | 34 | 27 |
| 137 SEP FT | 57 | 60 |
| 137 RMS SQ | 120 | 117 |
| 137 AER FT | 146 | 144 |
| 137 MSS FT | 38 | 40 |
| 185 TAL SQ | 96 | 101 |
| 205 EIS SQ | 220 | 202 |
| 8137 STU FT | 45 | 62 |
| TOTALS | 1,313 | 1,303 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 8 | 8 |
| Support Equipment | 223 | 261 |
| Vehicle Equivalents | 174 | 160 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WILL ROGERS WORLD AIRPORT OKLAHOMA | MOBILITY EQUIPMENT STORAGE WAREHOUSE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 442-758 | YZEU899623 | $950 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MOBILITY EQUIPMENT STORAGE WAREHOUSE | SF | 12,000 | 65 | 780 |
| SUPPORTING FACILITIES | | | | 80 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 45) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| SUBTOTAL | | | | 860 |
| CONTINGENCY (5%) | | | | 43 |
| TOTAL CONTRACT COST | | | | 903 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 45 |
| TOTAL REQUEST | | | | 948 |
| TOTAL REQUEST (ROUNDED) | | | | 950 |

10. Description of Proposed Construction: Reinforced concrete foundation, concrete slab floor, structural steel frame, roofing system. Masonry finish to match architectural theme. Provide wire mesh cages to segregate storage for each bay. All utilities, fire protection and support.

11. REQUIREMENT: 30,500 SF ADEQUATE: 18,500 SF SUBSTANDARD: 0
PROJECT: Mobility Equipment Storage Warehouse. (Current Mission).
REQUIREMENT: The base requires an adequately sized and properly configured storage building to house supplies and mobility equipment in support of the C-130 airlift training mission.
CURRENT SITUATION: The base supply items are stored in an overcrowded 14,563 SF supply warehouse and a 4,000 SF mobility storage warehouse. These buildings have 12 foot clear heights versus the standard 20 foot clear height. Raising the roofs is not structurally possible. Since the base does not have the volumetric storage available, supply storage has spilled over into administrative areas throughout the base. In addition, the recent authorization for additional equipment for the aeromedical evacuation squadron has made the space problem even more critical. Additional 7,400 SF of space is being leased at the commercial airport until this project is completed. This lease cost is $22,000 annually.
IMPACT IF NOT PROVIDED: Scattered, unacceptable storage methods, with a decrease in storage of materials in support of other base activities. Unmanageable, or at best, inefficient control system for vital readiness assets. Due to the lack of sufficient and secure storage, the mission of the base is adversely affected, and valuable government property is subject to compromise.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

WILL ROGERS WORLD AIRPORT OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MOBILITY EQUIPMENT STORAGE WAREHOUSE | YZEU899623 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JAN 23 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 APR 23 |
| (d) Date Design Complete | 93 FEB 15 |
| (2) Basia: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 41 |
| (b) All Other Design Costs | 21 |
| (c) Total | 62 |
| (d) Contract | 62 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WILL ROGERS WORLD AIRPORT OKLAHOMA | COMPOSITE SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 722-351 | YZEU001366 | $3,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| COMPOSITE SUPPORT FACILITY | SF | 39,600 | | 3,186 |
| DINING HALL | SF | 13,000 | 115 | ( 1,495) |
| MEDICAL TRAINING | SF | 9,800 | 105 | ( 1,029) |
| DISASTER PREPAREDNESS | SF | 3,000 | 100 | ( 300) |
| AUDIO-VISUAL | SF | 2,100 | 100 | ( 210) |
| ALTER BUILDINGS 1007 & 1011 | SF | 11,700 | 13 | ( 152) |
| SUPPORTING FACILITIES | | | | 370 |
| PAVEMENTS & SITE IMPROVEMENTS | LS | | | ( 100) |
| UTILITIES | LS | | | ( 120) |
| PREWIRED WORK STATIONS | LS | | | ( 150) |
| SUBTOTAL | | | | 3,556 |
| CONTINGENCY (5%) | | | | 178 |
| TOTAL CONTRACT COST | | | | 3,734 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 187 |
| TOTAL REQUEST | | | | 3,921 |
| TOTAL REQUEST (ROUNDED) | | | | 3,900 |

10. Description of Proposed Construction: Masonry and steel framed building on a concrete slab foundation with all associated support, site work, pavements and utility systems.
Air Conditioning: 60 Tons.

11. REQUIREMENT: 44,500 SF ADEQUATE: 0 SUBSTANDARD: 11,700 SF
PROJECT: Composite Support Facility (Current Mission).
REQUIREMENT: The base requires an adequately sized and properly configured facilty to support the training and accomplish the following tasks: feeding the troops during training periods; training for medical readiness and performing physicals and other tests for the world-wide mobility of the troops; training in disaster preparedness and audio visual.
CURRENT SITUATION: An inadequately sized dining hall occupies two separate floors of an aircraft hangar annex. Dining is overcrowded, and consumes considerable training time as the serving lines are too long. The space has numerous fire, safety and health hazards The medical training space is approximately 50 percent of the authorized space. Expansion of the existing space is not atructurally possible. The disaster preparedness function cannot properly train without additional space. The audio visual services has functions on two floors. The space made available by this project, (11,700 SF), will be utilized by other functions after minor alteration. These functions include: aeromedical evacuation and the airlift control center.
IMPACT IF NOT PROVIDED: Degraded and lost training opportunities. Long waiting lines at the dining and medical training waste training manhours. Continued violations of health, safety and fire codes. Non compliance with the approved master plan.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| WILL ROGERS WORLD AIRPORT OKLAHOMA | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| COMPOSITE SUPPORT FACILITY | YZEU001366 |

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

WILL ROGERS WORLD AIRPORT OKLAHOMA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| COMPOSITE SUPPORT FACILITY | YZEU001366 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 APR 13 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 89 DEC 18 |
| (d) Date Design Complete | 92 DEC 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 210 |
| (b) All Other Design Costs | 111 |
| (c) Total | 321 |
| (d) Contract | 321 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| PORTLAND INTERNATIONAL AIRPORT, OREGON | 0.99 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army National Guard Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 730-142 | ADD TO AND ALTER FIRE STATION | 3,800 | SF | 500 | AUG 89 | MAR 92 |
| 851-143 | DRAINAGE IMPROVEMENTS | | LS | 600 | FEB 88 | DEC 89 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 6 MAY 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 851-147 | SITE RESTORATION PHASE II | | LS | 1,600 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
PORTLAND INTERNATIONAL AIRPORT, OREGON

11. PERSONNEL STRENGTH AS OF 13 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 493 | 11 | 87 | 395 | 1,444 | 149 | 1,295 |
| ACTUAL | 472 | 10 | 87 | 375 | 1,410 | 160 | 1,250 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ OR ANG | 31 | 32 |
| 123 WEA FT | 14 | 15 |
| 123 TFS SQ | 39 | 35 |
| 142 TFG HQ | 66 | 68 |
| 142 MSS SQ | 45 | 51 |
| 142 MSS FT | 41 | 35 |
| 142 CLM SQ | 445 | 429 |
| 142 SEP FT | 86 | 88 |
| 142 RMS SQ | 122 | 116 |
| 142 TCI CI | 60 | 50 |
| 142 CEG SQ | 148 | 134 |
| 244 CCS SQ | 148 | 148 |
| 272 CCS SQ | 130 | 119 |
| 8142 STU FT | 0 | 34 |
| DET1 142 FG | 26 | 25 |
| 142 SEV FT | 43 | 31 |
| TOTALS | 1,444 | 1,410 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-26 Aircraft | 1 | 1 |
| F-15 Aircraft | 18 | 25 |
| Support Equipment | 460 | 433 |
| Vehicle Equivalents | 143 | 143 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PORTLAND ANG BASE OREGON | ADD TO AND ALTER FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | TOKD899696 | $500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER FIRE STATION | SF | 3,800 | | 364 |
| ADD TO FIRE STATION | SF | 2,800 | 105 | ( 294) |
| ALTER FIRE STATION | SF | 1,000 | 70 | ( 70) |
| SUPPORTING FACILITIES | | | | 90 |
| UTILITIES | LS | | | ( 50) |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 454 |
| CONTINGENCY (5%) | | | | 23 |
| TOTAL CONTRACT COST | | | | 477 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 24 |
| TOTAL REQUEST | | | | 501 |
| TOTAL REQUEST (ROUNDED) | | | | 500 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab; concrete tilt-up/insulated metal wall panels; sloped and insulated roofing system. Exterior to match existing. Extend utility systems, increase paved access road, provide necessary paving and site improvements. Cancel lease for the temporary facilities.
Air Conditioning: 5 Tons.

11. REQUIREMENT: 8,300 SF ADEQUATE: 4,500 SF SUBSTANDARD: 1,000 SF
PROJECT: Add to and Alter Fire Station (Current Mission).
REQUIREMENT: The base requires an adequately sized and properly configured fire station in which to store and maintain vehicles, train the fire crews and provide proper crew rest accommodations. This project will provide for the requirement for two additional vehicle bays and a bunk room.
CURRENT SITUATION: The facility was constructed in 1985. With the changing of the alert aircraft from F-4 to F-15, three additional vehicles,for a total of 7, were assigned in FY 91. In addition, the negotiated airport use agreement requires the fire station personnel to be available 24-hours per day. Eight people are working 24-hour on/48-hour off shifts. The existing facility cannot accommodate the additional vehicles and the sleeping quarters for the crews. A training area is not available in the existing facility.
IMPACT IF NOT PROVIDED: The unit is unable to store and maintain the vehicles under cover. They are parked outside and subject to accelerated corrosion. Temporary leased facilities are needed for the sleeping accommodations and the training area.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

PORTLAND ANG BASE OREGON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FIRE STATION | TOKD899696 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 AUG 23 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 90 DEC 10 |
| (d) | Date Design Complete | 92 MAR 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 25 |
| (b) | All Other Design Costs | 15 |
| (c) | Total | 40 |
| (d) | Contract | 40 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PORTLAND INTERNATIONAL AIRPORT OREGON | DRAINAGE IMPROVEMENTS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 851-143 | T0KD899720 | $600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| DRAINAGE IMPROVEMENTS | LS | | | 530 |
| SUPPORTING FACILITIES | | | | 15 |
| UTILITIES | LS | | | ( 5) |
| PAVEMENTS | LS | | | ( 5) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| SUBTOTAL | | | | 545 |
| CONTINGENCY (5%) | | | | 27 |
| TOTAL CONTRACT COST | | | | 572 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 29 |
| TOTAL REQUEST | | | | 601 |
| TOTAL REQUEST (ROUNDED) | | | | 600 |

10. Description of Proposed Construction: Storm water detention basin, oil separation pond with floating oil collection boom, waste oil collection tank, storm drain piping, and miscellaneous mechanical equipment and flow control structures. Provide all utilities, pavements and site improvements.

11. REQUIREMENT: As required.

PROJECT: Drainage Improvements (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. A storm water system that can be integrated into the Port of Portland's storm water system and does not pollute the soil and water of the base, airport, port, and river is required.

CURRENT SITUATION: Storm water flows off base and across Port of Portland property through open ditches. Water eventually reaches the Columbia River. The existing storm water system on base has no oil/water separation capability except for several isolated point discharges. One existing open ditch has been identified as a potential hazardous waste site with a high contamination migration potential. The Port of Portland is developing land adjacent to the base and altering existing surface drainage patterns. The City of Portland is concerned about potential contamination of ground water which they use to augment their potable water supply.

IMPACT IF NOT PROVIDED: Continued non-treatment of storm water that will aggravate existing pollution problems that currently exist in the drainage system. Port of Portland development plans may result in storm water backup within the base drainage system with the result being potential flooding and contamination of Air National Guard property.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

PORTLAND INTERNATIONAL AIRPORT OREGON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| DRAINAGE IMPROVEMENTS | TOKD899720 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 FEB 20 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 89 APR 10 |
| (d) Date Design Complete | 89 DEC 24 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 33 |
| (b) All Other Design Costs | 25 |
| (c) Total | 58 |
| (d) Contract | 58 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION<br>FT INDIANTOWN GAP ANG STATION, PENNSYLVANIA | | 4. AREA CONSTR COST INDEX 1.01 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army Reserve Center and 1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 219-944 | CIVIL ENGINEERING MAINTENANCE SHOPS | 9,200 SF | 850 | FEB 91 | FEB 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 14 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 2,000 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FT INDIANTOWN GAP ANG STATION, PENNSYLVANIA

11. PERSONNEL STRENGTH AS OF 15 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 93 | 6 | 86 | 1 | 600 | 32 | 568 |
| ACTUAL | 92 | 5 | 86 | 1 | 561 | 32 | 529 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 112 | TFGDMR | 8 | 8 |
| 201 | RHCEF | 221 | 219 |
| 203 | WEA FT | 21 | 18 |
| 211 | EIS SQ | 185 | 173 |
| 271 | CCS SQ | 165 | 143 |
| | TOTALS | 600 | 561 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 616 | 715 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| FT INDIANTOWN GAP ANG STATION PENNSYLVANIA | CIVIL ENGINEERING MAINTENANCE SHOPS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 219-944 | LKLW899631 | $850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CIVIL ENGINEERING MAINTENANCE SHOPS | SF | 9,200 | 75 | 690 |
| SUPPORTING FACILITIES | | | | 80 |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 20) |
| DEMOLITION | LS | | | ( 10) |
| ASBESTOS REMOVAL | LS | | | ( 30) |
| SUBTOTAL | | | | 770 |
| CONTINGENCY (5%) | | | | 39 |
| TOTAL CONTRACT COST | | | | 809 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 40 |
| TOTAL REQUEST | | | | 849 |
| TOTAL REQUEST (ROUNDED) | | | | 850 |

10. Description of Proposed Construction: Insulated metal building to include concrete floor, heat, electrical requirements, offices, storage areas, and paved exterior work area. Demolish WWII buildings 1038 & 1039 (3,598 SF), 1043 (3,215 SF), and 1034 (2,360 SF) for a total of 9,173 SF

11. REQUIREMENT: 9,200 SF ADEQUATE: 0 SUBSTANDARD: 9,173 SF
PROJECT: Civil Engineering Maintenance Shops (Current Mission).
REQUIREMENT: Adequate space for training and maintenance shops is required. Functional areas shall include structural and sheet metal shops, administration, storage, electrical, and plumbing shops.
CURRENT SITUATION: Shops are located in WWII converted barracks that were modified on a temporary basis but have been retained past their economic life. Spaces are insufficient and inadequate for the purpose of conducting training and maintenance. They lack adequate heating and cooling systems. The buildings are poorly insulated and have numerous health and safety code violations. Some of the rooms are small and cannot accommodate the shop equipment. The buildings will be demolished.
IMPACT IF NOT PROVIDED: Inefficent training and poor working conditions continue to degrade the worldwide deployment capability of the civil engineering units. Accept the risk for the health and safety code violations. Higher operating costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

FT INDIANTOWN GAP ANG STATION PENNSYLVANIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CIVIL ENGINEERING MAINTENANCE SHOPS | LKLW899631 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 FEB 22 |
| (b) | Percent Complete as of Jan 93 | 95% |
| (c) | Date 35% Designed | 91 OCT 11 |
| (d) | Date Design Complete | 93 FEB 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 34 |
| (b) | All Other Design Costs | 21 |
| (c) | Total | 55 |
| (d) | Contract | 55 |
| (e) | In-house | |
| (4) | Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
COVENTRY ANG STATION, RHODE ISLAND

4. AREA CONSTR COST INDEX 1.11

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
14 Army National Guard Armories, 1 Air National Guard Facility, 5 Army Reserve Facilities, 2 Naval Reserve Facilities and 2 Marine Reserve Facilities.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 840 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 JUL 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 171-447 | COMMUNICATIONS ELECTRONICS MAINTENANCE FACILITY | 12,900 SF | 2,200 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
COVENTRY ANG STATION, RHODE ISLAND

11. PERSONNEL STRENGTH AS OF 28 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 40 | 6 | 34 | 0 | 290 | 25 | 265 |
| ACTUAL | 40 | 6 | 34 | 0 | 262 | 24 | 238 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 281 CMM GP | 55 | 51 |
| 282 CMM SQ | 235 | 211 |
| TOTALS | 290 | 262 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 595 | 576 |
| Vehicle Equivalents | 271 | 371 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| COVENTRY ANG STATION RHODE ISLAND | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | EQDF909656 | $840 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 600 |
| SUPPORTING FACILITIES | | | | 124 |
| UTILITIES | LS | | | ( 14) |
| PAVEMENTS | LS | | | ( 14) |
| SITE RESTORATION | LS | | | ( 96) |
| SUBTOTAL | | | | 724 |
| CONTINGENCY (10%) | | | | 72 |
| TOTAL CONTRACT COST | | | | 796 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 40 |
| TOTAL REQUEST | | | | 836 |
| TOTAL REQUEST (ROUNDED) | | | | 840 |

10. Description of Proposed Construction: Replace 14 tanks and remove only two others. Excavate and remove tanks. Dispose of tanks, tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: Thia is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. . The Federal Environmental Protection Agency (EPA) has set atandards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

COVENTRY ANG STATION RHODE ISLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | EODF909656 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 NOV 08 |
| (b) | Percent Complete as of Jan 93 | 35% |
| (c) | Date 35% Designed | 92 NOV 30 |
| (d) | Date Design Complete | 93 AUG 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 42 |
| (b) | All Other Design Costs | 21 |
| (c) | Total | 63 |
| (d) | Contract | 63 |
| (e) | In-house | |
| (4) Construction Start | | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION<br>NORTH SMITHFIELD ANG STATION, RHODE ISLAND | | 4. AREA CONSTR COST INDEX 1.11 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
10 Army National Guard Armories, 6 Army Reserve Facilities, 1 Marine Reserve Facility, and 1 Naval Reserve Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 550 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 16 JUL 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
NORTH SMITHFIELD ANG STATION, RHODE ISLAND

11. PERSONNEL STRENGTH AS OF 28 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 47 | 3 | 44 | 0 | 300 | 30 | 270 |
| ACTUAL | 47 | 3 | 44 | 0 | 265 | 28 | 237 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 102 ACT SQ | 300 | 265 |
| TOTALS | 300 | 265 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130E Aircraft | 1 | 1 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 391 | 418 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NORTH SMITHFIELD ANG STATION<br>RHODE ISLAND | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | SAEJ909641 | $550 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 400 |
| SUPPORTING FACILITIES | | | | 80 |
| UTILITIES | LS | | | ( 10) |
| PAVEMENTS | LS | | | ( 10) |
| SITE RESTORATION | LS | | | ( 60) |
| SUBTOTAL | | | | 480 |
| CONTINGENCY (10%) | | | | 48 |
| TOTAL CONTRACT COST | | | | 528 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 26 |
| TOTAL REQUEST | | | | 554 |
| TOTAL REQUEST (ROUNDED) | | | | 550 |

10. Description of Proposed Construction: Replace 10 tanks. Excavate and remove the tanks. Dispose of the tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA atandards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violationa by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restrainta and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

NORTH SMITHFIELD ANG STATION RHODE ISLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | SAEJ909641 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 15 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 28 |
| (b) All Other Design Costs | 10 |
| (c) Total | 38 |
| (d) Contract | 38 |
| (e) In-house | |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| QUONSET STATE AIRPORT ANG, RHODE ISLAND | 1.09 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
8 Army National Guard Units, 2 Marine Corps Reserve, 2 Naval Stations, and 3 Air National Guard Units

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 890 | NOV 91 | JUL 93 |
| 219-944 | BASE ENGINEER MAINTENANCE FACILITY | 19,800 SF | 2,750 | MAR 89 | JAN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 JUL 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 217-712 | ADD TO AND ALTER AVIONICS SHOP | 6,400 SF | 440 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
QUONSET STATE AIRPORT ANG, RHODE ISLAND

11. PERSONNEL STRENGTH AS OF 1 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 282 | 23 | 206 | 53 | 969 | 123 | 846 |
| ACTUAL | 263 | 23 | 192 | 48 | 927 | 119 | 808 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 143 SVS FT | 34 | 33 |
| 143 TAL GP | 57 | 52 |
| 143 TAL SQ | 96 | 96 |
| 143 CLM SQ | 178 | 170 |
| 143 MSQ SQ | 45 | 43 |
| 143 TCI CI | 50 | 44 |
| 143 CEG SQ | 186 | 175 |
| 143 SEP FT | 57 | 62 |
| 143 MAP SQ | 106 | 99 |
| 143 RMS SQ | 120 | 114 |
| 143 MSQ FT | 40 | 39 |
| TOTALS | 969 | 927 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130E Aircraft | 8 | 8 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 307 | 109 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| QUONSET STATE AIRPORT ANG RHODE ISLAND | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | TWLR909653 | $890 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 620 |
| SUPPORTING FACILITIES | | | | 146 |
| UTILITIES | LS | | | ( 10) |
| PAVEMENTS | LS | | | ( 10) |
| SITE RESTORATION | LS | | | ( 126) |
| SUBTOTAL | | | | 766 |
| CONTINGENCY (10%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 843 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 42 |
| TOTAL REQUEST | | | | 885 |
| TOTAL REQUEST (ROUNDED) | | | | 890 |

10. Description of Proposed Construction: Replace 10 tanks and remove only 11 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

QUONSET STATE AIRPORT ANG RHODE ISLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | TWLR909653 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 01 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 22 |
| (b) All Other Design Costs | 10 |
| (c) Total | 32 |
| (d) Contract | 32 |
| (e) In-house | |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| QUONSET STATE RHODE ISLAND | BASE ENGINEER MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 219-944 | TWLR001362 | $2,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEER MAINTENANCE FACILITY | SF | 19,800 | | 2,017 |
| MAINTENANCE SHOPS | SF | 15,800 | 115 | ( 1,817) |
| COVERED STORAGE | SF | 4,000 | 50 | ( 200) |
| SUPPORTING FACILITIES | | | | 460 |
| UTILITIES | LS | | | ( 80) |
| PAVEMENTS & SITE IMPROVEMENTS | LS | | | ( 150) |
| ALTERATION | LS | | | ( 100) |
| DISPOSAL | LS | | | ( 50) |
| ASBESTOS REMOVAL | LS | | | ( 50) |
| PREWIRED WORK STATIONS | LS | | | ( 30) |
| SUBTOTAL | | | | 2,477 |
| CONTINGENCY (5%) | | | | 124 |
| TOTAL CONTRACT COST | | | | 2,601 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 130 |
| TOTAL REQUEST | | | | 2,731 |
| TOTAL REQUEST (ROUNDED) | | | | 2,750 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor alab, masonry walls, atructural steel frame, metal roof, and all necessary supporting facilities. Demolish hut (5,627 SF) and storage shed (2,501 SF) attached to building P-1 and four trailers, buildings 50-53 (2,616 SF). Alter 3,456 SF space in building P-1.
Air Conditioning: 25 Tons.

11. REQUIREMENT: 19,800 SF ADEQUATE: 0 SUBSTANDARD: 14,200 SF
PROJECT: Base Civil Engineer Maintenance Facility (Current Mission).
REQUIREMENT: The base civil engineer requires administrative offices, shops, and storage areas that are functional, well arranged work centers with adequate space and proper lighting. Also required is heating, ventilating and air conditioning, and special ventilation for operational and training puposes. The functional shops and storage areas of this complex are traditional shops, such as masonry, carpentry, plumbing, sheet metal, welding, mechancial, electrical, environmental, roads and grounds, tool cribs and bench stock, training rooms, and an adjacent covered storage building for equipment.
CURRENT SITUATION: The civil engineering squadron occupies apace scattered in seven separate areaa in five buildings. Four of the buildings are temporary trailers that have deteriorated and must be demolished. These poorly insulated buildings have become safety hazards. Attached to building P-1 are a WWII quonset hut and storage shed that are also deteriorated and shall be demolished. The base engineer offices are located in another part of building P-1 and are separated from the shop areas. This scattered arrangement causes significant loss of command and control and training opportunities. The facilities are severely deficient. There are numerous health and safety violations. OSHA codes

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | |
|---|---|
| QUONSET STATE RHODE ISLAND | |
| 4. PROJECT TITLE | 5. PROJECT NUMBER |
| BASE ENGINEER MAINTENANCE FACILITY | TWLR001362 |

are not met. The base engineer administration offices, located in building P-1, is 3,456 SF. This space will be vacated upon completion of this project and the area altered to accommodate the medical training and administrative function, which is severely undersized.

IMPACT IF NOT PROVIDED: Unable to properly train the civil engineering personnel. Loss of training opportunities. Higher operating costs for keeping antiquated buildings in the inventory. Continue with the risk for the health and safety hazards.

ADDITIONAL: An exception to the economic analysis has been prepared because the project directly supports a mission or activity for which there is no available alternative.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

QUONSET STATE RHODE ISLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEER MAINTENANCE FACILITY | TWLR001362 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 MAR 27 |
| (b) Percent Complete as of Jan 93 | 95% |
| (c) Date 35% Designed | 92 MAY 07 |
| (d) Date Design Complete | 93 JAN 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 87 |
| (b) All Other Design Costs | 58 |
| (c) Total | 145 |
| (d) Contract | 145 |
| (e) In-house | |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>MCENTIRE AIR NATIONAL GUARD BASE, SOUTH CAROLINA | | 4. AREA CONSTR COST INDEX<br>0.85 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly asaemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 3 Army Reserve, 1 Naval Reserve, 1 Air Force Base, 1 Army Base and 1 Marine Corps Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,750 | NOV 91 | JUN 93 |
| 136-667 | UPGRADE AIRFIELD LIGHTING AND PAVEMENT | | LS | 4,200 | JAN 90 | DEC 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 15 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | REPLACE DERA USTS | | LS | 400 |
| 131-111 | ADD TO AND ALTER COMMUNICATIONS FACILITY | 7,800 | SF | 550 |
| 722-351 | DINING HALL AND MEDICAL TRAINING FACILITY | 21,800 | SF | 3,250 |
| 851-147 | CONSTR ROADS B, C, AND NO CAR AND PARKING | | LS | 1,100 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
MCENTIRE AIR NATIONAL GUARD BASE, SOUTH CAROLINA

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 431 | 31 | 337 | 63 | 1,446 | 139 | 1,307 |
| ACTUAL | 413 | 31 | 325 | 57 | 1,348 | 132 | 1,216 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 157 | FS SQ | 58 | 55 |
| 169 | CES SQ | 136 | 138 |
| 169 | CAM SQ | 551 | 510 |
| 169 | CMN FT | 21 | 22 |
| 169 | OLAA | 8 | 7 |
| 169 | MSQ SQ | 44 | 42 |
| 169 | RMS SQ | 120 | 117 |
| 169 | CLN | 35 | 35 |
| 169 | FG GP | 68 | 63 |
| 169 | SEP FT | 57 | 55 |
| 240 | CCS SQ | 211 | 196 |
| 8169 | STU FT | 36 | 19 |
| HQ | SCANG | 25 | 24 |
| SC | ANGOLA | 1 | 1 |
| 169 | MSQ FT | 41 | 35 |
| 169 | SVS FT | 34 | 29 |
| | TOTALS | 1,446 | 1,348 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 26 |
| C-130 Aircraft | 1 | 1 |
| Support Equipment | 150 | 151 |
| Vehicle Equivalents | 554 | 554 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCENTIRE AIR NATIONAL GUARD BASE<br>SOUTH CAROLINA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | PSTE909540 | $1,750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,300 |
| SUPPORTING FACILITIES | | | | 197 |
| UTILITIES | LS | | | ( 36) |
| PAVEMENTS | LS | | | ( 36) |
| SITE RESTORATION | LS | | | ( 125) |
| SUBTOTAL | | | | 1,497 |
| CONTINGENCY (10%) | | | | 150 |
| TOTAL CONTRACT COST | | | | 1,647 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 82 |
| TOTAL REQUEST | | | | 1,729 |
| TOTAL REQUEST (ROUNDED) | | | | 1,750 |

10. Description of Proposed Construction: Replace 36 tanks and remove only 5 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require each regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST's are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST's at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST's require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed , the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | PSTE909540 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 13 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 JUN 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 100 |
| (b) All Other Design Costs | 52 |
| (c) Total | 152 |
| (d) Contract | 152 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA | UPGRADE AIRFIELD LIGHTING AND PAVEMENT |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 136-667 | PSTE899603 | $4,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE AIRFIELD LIGHTING AND PAVEMENT | LS | | | 3,310 |
| TAXIWAY LIGHT | LS | | | ( 670) |
| RUNWAY LIGHTING | LS | | | ( 450) |
| APPROACH LIGHTING | LS | | | ( 490) |
| NAVAIDS | LS | | | ( 200) |
| UPGRADE PAVEMENTS | LS | | | ( 1,500) |
| SUPPORTING FACILITIES | | | | 335 |
| UTILITIES | LS | | | ( 250) |
| SITE IMPROVEMENTS | LS | | | ( 85) |
| SUBTOTAL | | | | 3,645 |
| CONTINGENCY (10%) | | | | 365 |
| TOTAL CONTRACT COST | | | | 4,010 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 201 |
| TOTAL REQUEST | | | | 4,211 |
| TOTAL REQUEST (ROUNDED) | | | | 4,200 |

10. Description of Proposed Construction: Replace deteriorated runway lighting system, approach lighting systems and navigational aids with new systems to comply with current standards. Replace existing non-lighted taxiway reflectors with new lighting system. Replace undersized electrical power system. Upgrade airfield pavement.

11. REQUIREMENT: As required.

PROJECT: Upgrade Airfield Lighting and Pavement (Current Mission).

REQUIREMENT: Adequate airfield lighting system for night time training. Upgrade and repair the existing airfield lighting system to comply with current safety requirements and standards. Maintenance/repair to airfield pavement is required to increase the useful life and to continue operations.

CURRENT SITUATION: The airfield lighting system, constructed over 25 years ago, is antiquated and significantly below current safety standards. Non-lighted reflectors are currently used on the taxiways and as distance markers on the runway. Reflectors are not a permanent substitute for taxiway lights and runway distance markers. The existing approach lighting system and runway lighting system require continuous repairs by replacement of the deteriorated cables and light units. Parts to repair portions and components in the system are generally no longer available. The electrical power system and the airfield lighting control system which support the entire system are undersized. A pavement condition survey conducted in 1990 identified needed repairs including joint and crack sealing, overrun refurbishment, pavement replacement, rubber removal and asphalt overlay.

IMPACT IF NOT PROVIDED: The possible shut down of the airfield lighting system. Curtailed training and nighttime activities. Continued

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING AND PAVEMENT | PSTE899603 |

deterioration of the pavement with the possiblity of flying operations being jeopardized. Excess expenditures using operations and maintenance funds to maintain these assets.

ADDITIONAL: An exception to the economic analysis has been prepared. It presents the rationale that only one alternativen exists. A full economic analysis has not been prepared.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE AIRFIELD LIGHTING AND PAVEMENT | PSTE899603 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 90 JAN 10 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 91 MAR 15 |
| (d) | Date Design Complete | 92 DEC 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 141 |
| (b) | All Other Design Costs | 90 |
| (c) | Total | 231 |
| (d) | Contract | 231 |
| (e) | In-house | |
| (4) | Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>JOE FOSS FIELD ANG, SOUTH DAKOTA | | 4. AREA CONSTR COST INDEX<br>0.98 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year along with necessary local annual field training days are utilized for required readiness training. Daily use is made of all facilities by technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armory and 1 Army/Navy Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-445 | ALTER COMPOSITE OPERATIONS AND TRAINING FACILITY | 7,700 SF | 350 | APR 88 | MAR 92 |
| 211-179 | ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE/CORROSION DOCK | 25,600 SF | 1,700 | JUN 91 | FEB 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 14 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE DERA USTS | LS | 1,350 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 17,200 SF | 2,600 |
| 219-944 | BASE CIVIL ENGINEERING MAINTENANCE COMPLEX | 18,700 SF | 2,800 |
| 442-758 | BASE SUPPLY COMPLEX | 35,900 SF | 4,200 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
JOE FOSS FIELD ANG, SOUTH DAKOTA

11. PERSONNEL STRENGTH AS OF 1 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 281 | 27 | 252 | 2 | 1,062 | 115 | 947 |
| ACTUAL | 280 | 26 | 252 | 2 | 1,006 | 115 | 891 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ SD ANG | 22 | 19 |
| 114 SVS FT | 27 | 26 |
| 114 CEG SQ | 124 | 120 |
| 114 CLM SQ | 460 | 396 |
| 114 CMN FT | 21 | 20 |
| 114 MSS FT | 41 | 32 |
| 114 MSS SQ | 45 | 43 |
| 114 RMS SQ | 120 | 112 |
| 114 TCI CI | 35 | 33 |
| 114 TFG SQ | 59 | 57 |
| 114 SEP FT | 57 | 53 |
| 175 TFS SQ | 51 | 46 |
| 8114 STU FT | 0 | 49 |
| TOTALS | 1,062 | 1,006 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 22 |
| C-12 Aircraft | 1 | 1 |
| Support Equipment | 309 | 285 |
| Vehicle Equivalents | 242 | 344 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| JOE FOSS FIELD ANG SOUTH DAKOTA | ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE/CORROSION DOCK |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-179 | LUXC909883 | $1,700 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER FUEL/CORROSION DOCK | SF | 25,600 | | 1,093 |
| ALTER FUEL SYSTEMS MAINTENANCE DOCK | SF | 12,300 | 35 | ( 431) |
| ADD CORROSION CONTROL FACILITY | SF | 4,700 | 95 | ( 447) |
| ALTER AIRCRAFT MAINTENANCE COMPLEX | SF | 8,600 | 25 | ( 215) |
| SUPPORTING FACILITIES | | | | 445 |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 25) |
| SKIMMER/TREATMENT TANK | LS | | | ( 50) |
| FIRE DETECTION/SUPPRESSION | LS | | | ( 250) |
| AIRCRAFT FUEL TANK STORAGE PAD | LS | | | ( 20) |
| SUBTOTAL | | | | 1,538 |
| CONTINGENCY (5%) | | | | 77 |
| TOTAL CONTRACT COST | | | | 1,615 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 81 |
| TOTAL REQUEST | | | | 1,696 |
| TOTAL REQUEST (ROUNDED) | | | | 1,700 |

10. Description of Proposed Construction: Alter fuel cell to provide: mechanical ventilation, personnel breathing apparatus, fire detection and suppreasion, and upgraded utilities. Add a pre-engineered metal building with a partial brick veneer, concrete floor slab, wash rack, mechanical ventilation, drainage, water treatment system, and supporting utilities for corrosion control. Provide concrete pad for fuel tank atorage. Air Conditioning: 10 Tons.

11. REQUIREMENT: 25,600 SF ADEQUATE: 0 SUBSTANDARD: 20,900 SF
PROJECT: Add to and Alter Fuel Systems Maintenance/Corrosion Dock (New Miasion).
REQUIREMENT: This project supports the conversion from A-7 to F-16 aircraft in January 1992 and is also a level II environmental compliance project. An adequately sized and properly configured facility is required to perform environmentally safe corrosion control work on the F-16 aircraft which consists of washing and solvent cleaning the aircraft/aircraft parts and the painting of aircraft parts on and off the aircraft. Functional areas include corrosion control hangar bay, ahop apace and paint apray areas for both large and small parts. The existing fuel cell/corrosion control facility needs to be altered to accommodate the administrative function and some shop functions related to corrosion control and to conform to the most recent air pollution and fuel disposal/containment statutes. There is insufficient and poorly configured space for several aircraft related maintenance functions that require rearrangement/relocation to provide a better functional environment.
CURRENT SITUATION: The existing facility is too small to accommodate a separate bay for corrosion control and fuel cell. The facility is 72

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JOE FOSS FIELD ANG SOUTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE/CORROSION DOCK | LUXC909883 |

percent of what is authorized/required. It has only one bay for corrosion control and fuel cell work. When the facility is required for fuel cell work, the corrosion control must be accomplished outdoors. This is impossible during inclement weather and for the majority of the five month harsh South Dakota winter. The F-16 aircraft is more fuel cell intensive and requires a dedicated dock for each function since corrosion control can not be performed simultaneously with fuel cell repair. During intensive weekend training it is necessary to schedule fuel cell and corrosion control training at the same time. This can not be accomplished with the existing facilities. The potential for soil, water and air pollution is great with the existing facilities. Alterations are required for the oil/water separator and fuel containment facilities. The mechanical systems will need to be modified as painting operations are to be moved to the addition. Several aircraft maintenance functions can be rearranged and relocated for better functional relationships in spaces recently freed up by moves to new construction.

IMPACT IF NOT PROVIDED: Inefficient and ineffective training of the weekend forces. Poor working conditions for the full time forces and poor training conditions for the weekend forces. The mission capability of the corrosion control shop, fuel cell shop and the health and welfare of personnel is adversely affected. The unit is not able to support the corrosion control and fuel cell functions. Environmental statutes are violated through air pollution, water pollution and soil contamination.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

JOE FOSS FIELD ANG SOUTH DAKOTA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE/CORROSION DOCK | LUXG909883 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 JUN 19 |
| (b) Percent Complete as of Jan 93 | 70% |
| (c) Date 35% Designed | 92 JUN 24 |
| (d) Date Design Complete | 93 FEB 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 62 |
| (b) All Other Design Costa | 29 |
| (c) Total | 91 |
| (d) Contract | 91 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| ALCOA AIR NATIONAL GUARD STATION, TENNESSEE | 0.91 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air National Guard Base, 1 Army Aviation Support Facility, 3 Army National Guard Armories, 1 Marine Corps Reserve, 1 Naval Reserve and 1 Coast Guard Reserve

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-447 | ADD TO AND ALTER COMMUNICATION ELECTRONICS TRAINING FACILITY | 31,600 SF | 1,300 | SEP 87 | JUN 91 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 21 JAN 93 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ALCOA AIR NATIONAL GUARD STATION, TENNESSEE

11. PERSONNEL STRENGTH AS OF 30 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 39 | 4 | 35 | 0 | 212 | 21 | 191 |
| ACTUAL | 39 | 4 | 35 | 0 | 196 | 19 | 177 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 110 TCS SQ | 90 | 88 |
| 119 TCS SQ | 122 | 108 |
| TOTALS | 212 | 196 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| TSC Equipment | 5 | 5 |
| MEP Equipment | 6 | 6 |
| AE24U-8 | 8 | 8 |
| S-530 | 6 | 6 |
| TRC-97 | 4 | 4 |
| Misc Equipment | 8 | 8 |
| Support Equipment | 34 | 34 |
| Vehicle Equivalents | 352 | 300 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ALCOA AIR NATIONAL GUARD STATION TENNESSEE | ADD TO AND ALTER COMMUNICATION ELECTRONICS TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-447 | AECW000512 | $1,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER COMMUNICATION ELECTRONICS TRAINING FACILITY | SF | 31,600 | | 1,015 |
| ADD TO COMM FAC | SF | 1,200 | 86 | ( 103) |
| ALTER COMM FAC | SF | 30,400 | 30 | ( 912) |
| SUPPORTING FACILITIES | | | | 170 |
| ASBESTOS REMOVAL | LS | | | ( 25) |
| UTILITIES | LS | | | ( 65) |
| PAVEMENTS | LS | | | ( 40) |
| SITE IMPROVEMENTS | LS | | | ( 40) |
| SUBTOTAL | | | | 1,185 |
| CONTINGENCY (5%) | | | | 59 |
| TOTAL CONTRACT COST | | | | 1,244 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 62 |
| TOTAL REQUEST | | | | 1,306 |
| TOTAL REQUEST (ROUNDED) | | | | 1,300 |

10. Description of Proposed Construction: Addition to match all existing masonary and brick construction; rearrangement and upgrades of interior utility and structural systems. Fire protection and support.

11. REQUIREMENT: 31,600 SF ADEQUATE: 0 SUBSTANDARD: 30,400 SF

PROJECT: Add to and Alter Communication Electronics Training Facility (New Mission).

REQUIREMENT: The 110 and the 119 Tactical Control Squadrons provide full time air traffic control to 14 military units. Adequate facilities are required to operate, maintain, store, and train on the new Modular Control Equipment and accommodate the associated increase in personnel.

CURRENT SITUATION: Alcoa ANG station is located off base adjacent to the ANG installation of McGhee Tyson, TN. An FY 90 MILCON project has relocated and consolidated the dining hall with the main base. This project will upgrade the vacated space. The existing facility is inadequate for proper training and maintenance of equipment. Painting of the 50 authorized vehicles and maintaining personnel safety and conforming to environmental statutes is virtually impossible in the present facilities atthe station. With the arrival of new equipment and increased personnel it is necessary to reconfigure the interior of the facility and provide maintenance, storage and classroom space.

IMPACT IF NOT PROVIDED: Unable to receive and train on the new MCE equipment. Mission degradation. Loss of training opportunities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ALCOA AIR NATIONAL GUARD STATION TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER COMMUNICATION ELECTRONICS TRAINING FACILITY | AECW000512 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| | (a) Date Design Started | 87 SEP 18 |
| | (b) Percent Complete as of Jan 93 | 100% |
| | (c) Date 35% Designed | 89 FEB 23 |
| | (d) Date Design Complete | 91 JUN 07 |
| (2) Basia: | | |
| | (a) Standard or Definitive Design - | |
| | (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| | (a) Production of Plans and Specifications | 70 |
| | (b) All Other Design Costs | 35 |
| | (c) Total | 105 |
| | (d) Contract | 105 |
| | (e) In-house | |
| (4) Construction Start | | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
MCGHEE TYSON AIRPORT, TENNESSEE

4. AREA CONSTR COST INDEX 0.91

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 1 Army Aviation Support Facility, 1 Marine Corps Reserve Unit and 1 Coast Guard Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,100 | NOV 91 | SEP 93 |
| 171-445 | PMEC ADMINISTRATIVE SUPPORT FACILITY | 25,000 | SF | 2,200 | MAR 89 | APR 91 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 21 JAN 93 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 113-321 | AIRCRAFT PARKING APRON | 60,000 | SY | 6,900 |
| 217-712 | AVIONICS SHOP | 5,400 | SF | 750 |
| 721-000 | SCHOOL TRAINING QUARTERS | 40,000 | SF | 3,900 |
| 750-581 | PMEC TRAINING FACILITIES | | LS | 1,100 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
MCGHEE TYSON AIRPORT, TENNESSEE

11. PERSONNEL STRENGTH AS OF 30 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 359 | 41 | 314 | 4 | 1,312 | 154 | 1,158 |
| ACTUAL | 359 | 41 | 314 | 4 | 1,302 | 163 | 1,139 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 134 ARH GP | 69 | 75 |
| 134 CEG SQ | 171 | 170 |
| 134 TCI CI | 59 | 65 |
| 134 CLM SQ | 359 | 348 |
| 134 MSS FT | 41 | 44 |
| 134 MSS SQ | 45 | 44 |
| 134 RMS SQ | 120 | 118 |
| 134 SEP FT | 75 | 76 |
| 134 SVS FT | 27 | 27 |
| 151 ARH SQ | 75 | 82 |
| 228 CCS SQ | 167 | 161 |
| 572 AF BND | 36 | 32 |
| PMEC SCHOOL | 68 | 60 |
| TOTALS | 1,312 | 1,302 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| KC-135 Aircraft | 10 | 10 |
| Support Equipment | 92 | 92 |
| Vehicle Equivalents | 342 | 342 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCGHEE TYSON AIRPORT TENNESSEE | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | PSXE909585 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 800 |
| SUPPORTING FACILITIES | | | | 160 |
| UTILITIES | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 20) |
| SITE RESTORATION | LS | | | ( 120) |
| SUBTOTAL | | | | 960 |
| CONTINGENCY (10%) | | | | 96 |
| TOTAL CONTRACT COST | | | | 1,056 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,109 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Replace 20 and remove only 3 other tanks. Excavate and remove the tanks. Dispose of the tanks and the tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCGHEE TYSON AIRPORT TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | PSXE909585 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 80 |
| (b) All Other Design Costs | 40 |
| (c) Total | 120 |
| (d) Contract | 120 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MCGHEE TYSON AIRPORT TENNESSEE | PMEC ADMINISTRATIVE SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-445 | PSXE001344 | $2,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PMEC SUPPORT FACILITY | SF | 25,000 | 73 | 1,825 |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| DEMOLITION | LS | | | ( 20) |
| PREWIRED WORK STATIONS | LS | | | ( 100) |
| SUBTOTAL | | | | 1,995 |
| CONTINGENCY (5%) | | | | 100 |
| TOTAL CONTRACT COST | | | | 2,095 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 105 |
| TOTAL REQUEST | | | | 2,200 |
| TOTAL REQUEST (ROUNDED) | | | | 2,200 |

10. Description of Proposed Construction: Facility with concrete foundations and floor slab, masonry walls, steel frame, built-up roof, including all utilities and necessary support. Demolish Building 200 (11,594SF).
Air Conditioning: 60 Tons.

11. REQUIREMENT: 25,000 SF ADEQUATE: 0 SUBSTANDARD: 11,594 SF
PROJECT: PMEC Administrative Support Facility ( Current Mission).
REQUIREMENT: Expanded ANG missions have generated a 40% increase in students and doubled the required courses. Expanded modern educational facilities are needed. The Professional Military Education Center(PMEC) conducts military education and management training programs for enlisted members, officer commissioning program, and specilized courses unique to the ANG. This training is essential to manage the weapons systems assigned to the ANG. This is part of a phased program to expand the PMEC.
CURRENT SITUATION: The PMEC administrative function is in a wood frame temporary facility. The facility is inadequate in both space and function for current and programmed increases in ANG training requirements. The room configuation and utility systems are undersized. They lack storage space. The interior and exterior utility systems are grossly antiquated. The building has numerous safety violations. The building is energy inefficient. This is a congressional directed project and the Air Force has agreed to include it in the FY94 budget request.
IMPACT IF NOT PROVIDED: Support for the curricula is degraded. The Air National Guard is not able to meet programmed increases in ANG management and leadership training which adversely affect the ANG readiness, morale and retention. Higher operating costs in maintaining an old facility. Unable to comply with congressional direction.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCGHEE TYSON AIRPORT TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PMEC ADMINISTRATIVE SUPPORT FACILITY | PSXE001344 |

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

MCGHEE TYSON AIRPORT TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PMEC ADMINISTRATIVE SUPPORT FACILITY | PSXE001344 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 MAR 14 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 89 DEC 27 |
| (d) | Date Design Complete | 91 APR 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 92 |
| (b) | All Other Design Costs | 44 |
| (c) | Total | 136 |
| (d) | Contract | 136 |
| (e) | In-house | |
| (4) Construction Start | | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>NASHVILLE METRO AIRPORT, TENNESSEE | | 4. AREA CONSTR COST INDEX<br>0.87 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army Reserve, 1 Navy Reserve, 1 Active Air Force Squadron, 1 Marine Corp Reserve, 1 Active Coast Guard, 1 Reserve Coast Guard, 1 Corp of Engineers, 3 Army National Guard.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,000 | NOV 91 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 21 JAN 93 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 5,000 |
| 141-753 | SQUADRON OPERATIONS FACILITY | 26,000 | SF | 3,850 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 14,300 | SF | 1,600 |
| 219-944 | BASE CIVIL ENGINEER MAINTENANCE COMPLEX | 18,700 | SF | 2,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
NASHVILLE METRO AIRPORT, TENNESSEE

11. PERSONNEL STRENGTH AS OF 15 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 373 | 6 | 42 | 325 | 1,430 | 256 | 1,174 |
| ACTUAL | 335 | 5 | 42 | 288 | 1,382 | 252 | 1,130 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 118 AW WG | 68 | 70 |
| 118 RMS SQ | 120 | 114 |
| 118 MSS SQ | 46 | 45 |
| 118 CES SQ | 124 | 109 |
| 118 SPF FT | 57 | 54 |
| 118 CAM SQ | 353 | 330 |
| 118 MSF FT | 41 | 39 |
| 118 SVF FT | 34 | 29 |
| 118 MAP SQ | 110 | 105 |
| 118 AIR SQ | 173 | 147 |
| 118 TAC HP | 54 | 57 |
| 118 COMM F | 21 | 22 |
| 105 AS SQ | 174 | 165 |
| 105 WX FT | 19 | 17 |
| HQ TN ANG | 36 | 39 |
| 8118 STU FT | 0 | 40 |
| TOTALS | 1,430 | 1,382 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 16 | 16 |
| Support Equipment | 88 | 88 |
| Vehicle Equivalents | 273 | 298 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NASHVILLE METRO AIRPORT TENNESSEE | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | BKTZ909588 | $1,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 750 |
| SUPPORTING FACILITIES | | | | 118 |
| UTILITIES | LS | | | ( 19) |
| PAVEMENTS | LS | | | ( 19) |
| SITE RESTORATION | LS | | | ( 80) |
| SUBTOTAL | | | | 868 |
| CONTINGENCY (10%) | | | | 87 |
| TOTAL CONTRACT COST | | | | 955 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 48 |
| TOTAL REQUEST | | | | 1,003 |
| TOTAL REQUEST (ROUNDED) | | | | 1,000 |

10. Description of Proposed Construction: Replace 19 and remove only 3 other tanks. Excavate and remove the tanks. Dispose of tanks and tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

NASHVILLE METRO AIRPORT TENNESSEE

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | BKTZ909588 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 SEP 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 26 |
| (b) All Other Design Costs | 10 |
| (c) Total | 36 |
| (d) Contract | 36 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ELLINGTON FIELD, TEXAS

4. AREA CONSTR COST INDEX
0.89

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army Reserve Facilities, 4 Army National Guard Armories, 1 Naval Reserve Facility, 1 Marine Corps Reserve Facility and 1 Coast Guard Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,600 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 4 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 442-758 | BASE SUPPLY WAREHOUSE | 35,000 | SF | 4,300 |
| 842-245 | WATER DISTRIBUTION SYSTEM | | LS | 750 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
ELLINGTON FIELD, TEXAS

11. PERSONNEL STRENGTH AS OF 14 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 523 | 30 | 406 | 87 | 1,067 | 121 | 946 |
| ACTUAL | 480 | 28 | 365 | 87 | 1,081 | 118 | 963 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 111 FIN SQ | 43 | 42 |
| 111 WEA FT | 13 | 16 |
| 147 CEG SQ | 136 | 131 |
| 147 TCI CI | 55 | 54 |
| 147 CLM SQ | 413 | 420 |
| 147 FIN GP | 72 | 76 |
| 147 MSS FT | 41 | 44 |
| 147 MSS SQ | 47 | 45 |
| 147 RMS SQ | 119 | 125 |
| 147 SEP FT | 85 | 88 |
| 147 SVS FT | 25 | 23 |
| DET 1 | 18 | 17 |
| TOTALS | 1,067 | 1,081 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 22 |
| C-26 Aircraft | 2 | 2 |
| Support Equipment | 110 | 110 |
| Vehicle Equivalents | 352 | 352 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ELLINGTON FIELD TEXAS | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | FWJH909658 | $1,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 1,160 |
| SUPPORTING FACILITIES | | | | 232 |
| UTILITIES | LS | | | ( 29) |
| PAVEMENTS | LS | | | ( 29) |
| SITE RESTORATION | LS | | | ( 174) |
| SUBTOTAL | | | | 1,392 |
| CONTINGENCY (10%) | | | | 139 |
| TOTAL CONTRACT COST | | | | 1,531 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 77 |
| TOTAL REQUEST | | | | 1,608 |
| TOTAL REQUEST (ROUNDED) | | | | 1,600 |

10. Description of Proposed Construction: Replace 29 tanks. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

ELLINGTON FIELD TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | FWJH909658 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 30 |
| (d) Date Design Complete | 93 AUG 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 80 |
| (b) All Other Design Costs | 40 |
| (c) Total | 120 |
| (d) Contract | 120 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>KELLY AIR FORCE BASE, TEXAS | | 4. AREA CONSTR COST INDEX<br>0.88 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
4 Air Force Bases and 1 Army Installation

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | 560 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 4 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 141-753 | ALTER SQUADRON OPERATIONS AND SECURITY POLICE | 26,100 | SF | 1,100 |
| 171-445 | ALTER INTERIOR BLDG 962 | 18,300 | SF | 400 |
| 171-450 | MEDICAL TRAINING AND ACCOUNTING | 14,800 | SF | 930 |
| 214-425 | VEHICLE AND AGE MAINTENANCE FACILITY | 19,600 | SF | 2,450 |
| 442-758 | BASE SUPPLY WAREHOUSE | 30,000 | SF | 4,300 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
KELLY AIR FORCE BASE, TEXAS

11. PERSONNEL STRENGTH AS OF 11 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 318 | 24 | 266 | 28 | 1,113 | 115 | 998 |
| ACTUAL | 293 | 23 | 249 | 21 | 1,078 | 108 | 970 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 149 | FG | 63 | 65 |
| 182 | FS | 50 | 49 |
| 149 | CAMS | 470 | 446 |
| 149 | RMS | 120 | 116 |
| 149 | MSS | 45 | 47 |
| 149 | MSF | 30 | 28 |
| 149 | CF | 21 | 24 |
| 149 | SPF | 57 | 61 |
| 149 | CES | 150 | 145 |
| 149 | SVF | 34 | 32 |
| 149 | TC | 73 | 65 |
| | TOTALS | 1,113 | 1,078 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 20 |
| Support Equipment | 138 | 138 |
| Vehicle Equivalents | 301 | 301 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE TEXAS | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | MBPB909647 | $560 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 400 |
| SUPPORTING FACILITIES | | | | 84 |
| UTILITIES | LS | | | ( 9) |
| PAVEMENTS | LS | | | ( 9) |
| SITE RESTORATION | LS | | | ( 66) |
| SUBTOTAL | | | | 484 |
| CONTINGENCY (10%) | | | | 48 |
| TOTAL CONTRACT COST | | | | 532 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 27 |
| TOTAL REQUEST | | | | 559 |
| TOTAL REQUEST (ROUNDED) | | | | 560 |

10. Description of Proposed Construction: Replace 9 tanks and remove only 2 othera. Excavate and remove the tanks. Dispose of the tanks, tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE TEXAS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | MBPB909647 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 AUG 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 28 |
| (b) All Other Design Costs | 10 |
| (c) Total | 38 |
| (d) Contract | 38 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>SALT LAKE CITY INTERNAT'L APT ANG UTAH | | 4. AREA CONSTR COST INDEX<br>1.00 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Naval/Marine Corps Reserve, 1 Army Reserve and 2 Army National Guard Units

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-447 | ADD TO AND ALTER COMMUNICATION AND ELECTRONICS TRAINING | 11,500 SF | 850 | APR 90 | JUN 93 |
| 171-447 | ALTER COMPOSITE SUPPORT FACILITY | 18,700 SF | 950 | FEB 89 | JUL 91 |
| 851-147 | SITE RESTORATION | LS | 2,000 | JUN 88 | DEC 91 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 9 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | LS | 850 |
| 141-753 | ADD TO SQUADRON OPERATIONS FACILITY | 9,000 SF | 1,150 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SALT LAKE CITY INTERNAT'L APT ANG UTAH

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 425 | 26 | 369 | 30 | 1,702 | 190 | 1,512 |
| ACTUAL | 425 | 26 | 369 | 30 | 1,656 | 183 | 1,473 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| HQ | UT ANG | 30 | 29 |
| 106 | TCS SQ | 89 | 84 |
| 109 | TCS SQ | 91 | 92 |
| 130 | EIS SQ | 228 | 224 |
| HQ | AREFG | 69 | 71 |
| 151 | MSS SQ | 46 | 48 |
| 151 | CLM SQ | 359 | 339 |
| 151 | TCI CI | 55 | 54 |
| 151 | CEG SQ | 171 | 170 |
| 151 | SEP FT | 75 | 79 |
| 151 | RMS SQ | 120 | 119 |
| 151 | MSS FT | 41 | 40 |
| 151 | CFT FT | 21 | 19 |
| 151 | SVS FT | 27 | 26 |
| 169 | ESS SQ | 98 | 83 |
| 191 | AREFS | 74 | 74 |
| 299 | RES SQ | 108 | 105 |
| | TOTALS | 1,702 | 1,656 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| KC-135 Aircraft | 10 | 10 |
| Support Equipment | 175 | 151 |
| Vehicle Equivalents | 802 | 777 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SALT LAKE CITY INTERNAT'L APT ANG UTAH | ADD TO AND ALTER COMMUNICATION AND ELECTRONICS TRAINING |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-447 | USEB889584 | $850 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD/ALTER COMMUNICATION AND ELECTRONICS | SF | 11,500 | | 735 |
| ADD TO COMM FAC | SF | 5,500 | 90 | ( 495) |
| ALTER COMM FAC | SF | 6,000 | 40 | ( 240) |
| SUPPORTING FACILITIES | | | | 35 |
| UTILITIES | LS | | | ( 5) |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 770 |
| CONTINGENCY (5%) | | | | 39 |
| TOTAL CONTRACT COST | | | | 809 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 40 |
| TOTAL REQUEST | | | | 849 |
| TOTAL REQUEST (ROUNDED) | | | | 850 |

10. Description of Proposed Construction: Alter shop and office areas in control building for conference room, vault, and quality assurance. New mechanical, electrical systems and wall modifications. Addition to match existing building. All site work, utilities and support.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 19,200 SF ADEQUATE: 7,700 SF SUBSTANDARD: 6,000 SF
PROJECT: Add to and Alter Communication and Electronics Training (New Mission).
REQUIREMENT: Provide adequately sized and properly configured facility for the new Modular Control Equipment (MCE) and personnel for the two tactical control squadrons.
CURRENT SITUATION: The two Tactical Control Squadrons are scheduled to receive new Modular Control Equipment and additional personnel. The existing building cannot accommodate these increases. The maintenance bays are too small. The complex does not have a vault. There are insufficient classrooms for the personnel. Some of the rooms need to be reconfigured with new utility support.
IMPACT IF NOT PROVIDED: Inability to properly maintain the new equipment. Degraded training and inefficient operation. Degraded mission capability.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SALT LAKE CITY INTERNAT'L APT ANG UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER COMMUNICATION AND ELECTRONICS TRAINING | USEB889584 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 90 APR 18 |
| (b) Percent Complete as of Jan 93 | 70% |
| (c) Date 35% Designed | 92 JUL 30 |
| (d) Date Design Complete | 93 JUN 05 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 43 |
| (b) All Other Design Costs | 23 |
| (c) Total | 66 |
| (d) Contract | 66 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SALT LAKE CITY INTERNAT'L APT ANG UTAH | ALTER COMPOSITE SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 171-447 | USEB889721 | $950 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER COMPOSITE SUPPORT FACILITY | SF | 18,700 | 38 | 711 |
| SUPPORTING FACILITIES | | | | 150 |
| UTILITIES | LS | | | ( 15) |
| PAVEMENTS | LS | | | ( 5) |
| DEMOLITION | LS | | | ( 40) |
| PRE-WIRED WORKSTATIONS | LS | | | ( 50) |
| ASBESTOS REMOVAL | LS | | | ( 40) |
| SUBTOTAL | | | | 861 |
| CONTINGENCY (5%) | | | | 43 |
| TOTAL CONTRACT COST | | | | 904 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 45 |
| TOTAL REQUEST | | | | 949 |
| TOTAL REQUEST (ROUNDED) | | | | 950 |

10. Description of Proposed Construction: Alter building for offices, restrooms, communications requirements such as raised floor and class "A" vault, and upgrading of electrical, mechanical and communication systems. Buildings 1524 at 4,736 SF and 1525 at 1,938 SF will be demolished. Air Conditioning: 40 Tons.

11. REQUIREMENT: 18,700 SF ADEQUATE: 0 SUBSTANDARD: 25,374 SF
PROJECT: Alter Composite Support Facility (Current Mission).
REQUIREMENT: The base requires adequate space to support Automated Data Processing, Consolidated Base Personnel Office (CBPO) and other headquarters area functions.
CURRENT SITUATION: The construction of a composite dining hall and medical training in FY 91 vacated space in the composite support facility. This project will upgrade the vacated space. The Data Processing function is housed in Building 18. The area is crowded and arranged inefficiently. CBPO is located in Building 1525, a World War II wood building. Mission Support Command and administration are housed in Building 1524, also a wood structure. These two facilities are old and energy inefficient are full of asbestos and will be demolished. This is in accordance with the approved comprehensive master development plan.
IMPACT IF NOT PROVIDED: Dilapidated, inadequate and scattered facilities remain in use, adversely impacting mission, morale, training and retention. In addition, operations and maintenance funds are used for the upkeep of the old facilities. Vacated space to remain unuseable and unoccupied. Higher operating costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SALT LAKE CITY INTERNAT'L APT ANG UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER COMPOSITE SUPPORT FACILITY | USEB889721 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 FEB 16 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 90 SEP 17 |
| (d) Date Design Complete | 91 JUL 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 32 |
| (b) All Other Design Costs | 21 |
| (c) Total | 53 |
| (d) Contract | 53 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| SALT LAKE CITY INTERNAT'L APT ANG UTAH | SITE RESTORATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 851-147 | USEB889583 | $2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| SITE RESTORATION | LS | | | 1,730 |
| SUBTOTAL | | | | 1,730 |
| CONTINGENCY (10%) | | | | 173 |
| TOTAL CONTRACT COST | | | | 1,903 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 95 |
| TOTAL REQUEST | | | | 1,998 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Asphalt paved roads and parking, concrete curb and gutters, sidewalks, waterlines, sanitary and storm sewer lines, underground electrical with pad mounted transformers, gas lines, a box culvert for drainage, excavation and construction of a retention pond, construction of new gate house.

11. REQUIREMENT: As required.

PROJECT: Site Restoration (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. The base requires utilities and related infrastructure which are properly sized and evironmentally safe such that they do not pollute the ground and water. The utility systems support the approved base master development plan.

CURRENT SITUATION: The existing road and utility systems are over 40 years old. They are undersized and deteriorated. The sanitary sewer system does not meet federal and state EPA requirements. There have been numerous broken lines and leaking joints that have contaminated the soil resulting in health hazards. The surface runoff from the ANG ramp areas where the aircraft are maintained, refueled and de-iced, runs untreated into a creek that is located off the installation. Oil-water separators are in need of replacement and are ineffective. The airport requires that the runoff be pollutant free. The water lines have jute and lead packed joints which presents a health danger. In addition, the base water distribution system is undersized and over capacity. Roads are less than the required width for fire protection and do not provide proper traffic flow. The roads do not have the proper crowns and slopes for correct drainage. The storm sewer system is not adequately sized to support the existing facilities. Construction of new facilities will put excessive

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SALT LAKE CITY INTERNAT'L APT ANG UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SITE RESTORATION | USEB889583 |

demands on the system. The primary and secondary electrical distribution systems are grossly antiquated and cannot satisfy the existing facilities demand.

IMPACT IF NOT PROVIDED: The sewer and water systems will have increase interruptions for emergency repairs. Related health problems may develop. Power outages will be common as maintenance and repairs to the overhead electical system continue to be made. Vehicular traffic will continue to be hampered by the narrow roads and flooding due to the lack of street drainage. Notices of Violation will be issued as storm drainage continues to pollute the creeks off the installation.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

SALT LAKE CITY INTERNAT'L APT ANG UTAH

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| SITE RESTORATION | USEB889583 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 88 JUN 13 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 90 FEB 22 |
| (d) | Date Design Complete | 91 DEC 30 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 88 |
| (b) | All Other Design Costs | 44 |
| (c) | Total | 132 |
| (d) | Contract | 132 |
| (e) | In-house | |
| (4) | Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BURLINGTON INTERNATIONAL AIRPORT, VERMONT

4. AREA CONSTR COST INDEX
0.99

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Naval Reserve, 3 Army Reserve/Guard and 1 ANG facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | FIRE STATION | 11,500 SF | 1,500 | FEB 89 | JUL 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 19 FEB 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | LS | 5,000 |
| 211-111 | UPGRADE MAINTENANCE HANGARS | 69,100 SF | 2,000 |
| 722-351 | DINING HALL AND MEDICAL TRAINING FACILITY | 21,000 SF | 3,150 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BURLINGTON INTERNATIONAL AIRPORT, VERMONT

11. PERSONNEL STRENGTH AS OF 25 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 416 | 26 | 334 | 56 | 1,054 | 120 | 934 |
| ACTUAL | 412 | 26 | 330 | 56 | 1,034 | 112 | 922 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| HQ | VT ANG | 30 | 30 |
| 134 | FIN SQ | 43 | 47 |
| 158 | CEG SQ | 136 | 130 |
| 158 | CAM SQ | 408 | 405 |
| 158 | FIG GP | 66 | 60 |
| 158 | MSF FT | 41 | 42 |
| 158 | RMS SQ | 119 | 120 |
| 158 | SPF FT | 85 | 87 |
| 158 | TAC CL | 55 | 47 |
| 158 | SVF FT | 25 | 24 |
| 158 | MSS SQ | 46 | 42 |
| | TOTALS | 1,054 | 1,034 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 24 |
| C-12 Aircraft | 1 | 1 |
| Support Equipment | 120 | 115 |
| Vehicle Equivalents | 269 | 269 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BURLINGTON INTERNATIONAL AIRPORT VERMONT | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | CURZ000002 | $1,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 11,500 | | 1,102 |
| FIRE STATION | SF | 11,300 | 95 | ( 1,074) |
| TRAFFIC GATE HOUSE | SF | 200 | 140 | ( 28) |
| SUPPORTING FACILITIES | | | | 280 |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 80) |
| SITE IMPROVEMENTS | LS | | | ( 30) |
| DEMOLITION/ASBESTOS REMOVAL | LS | | | ( 40) |
| COMMUNICATIONS | LS | | | ( 30) |
| SUBTOTAL | | | | 1,382 |
| CONTINGENCY (5%) | | | | 69 |
| TOTAL CONTRACT COST | | | | 1,451 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 73 |
| TOTAL REQUEST | | | | 1,524 |
| TOTAL REQUEST (ROUNDED) | | | | 1,500 |

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, and roof. Electrical and mechanical systems. Functional areas include vehicle bays, control room, extinguisher maintenance rooms, administration and storage space, classroom, bunk room and kitchen. Demolish Building 50 at 9,500 SF.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 11,500 SF ADEQUATE: 0 SUBSTANDARD: 9,500 SF
PROJECT: Fire Station (Current Mission).
REQUIREMENT: A facility to house fire crash vehicles for 24 hour fire operations. A gate house to allow for the control of traffic in and out of the base.
CURRENT SITUATION: The base provides 24 hour crash and rescue coverage. The fire department operates from a 1953 wood framed building. Space for vehicles is inadequate. Two vehicles must be left outside. Crew quarters are small and offer no privacy or accommodations for women firefighters and contains asbestos. The main gate house is inappropriately sited and obtains its utilities from the fire station. When the fire station is constructed at its new location, in accordance with the master plan, the old fire station will be demolished. The new gate house must be reconstructed at a safer location in accordance with the approved master development plan.
IMPACT IF NOT PROVIDED: Fire and crash vehicles remain outside. Inadequate sleeping accommodations. Inefficient training hinders the response time. Safety hazards for the gate house remain.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BURLINGTON INTERNATIONAL AIRPORT VERMONT

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | CURZ000002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 FEB 08 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 91 JUN 21 |
| (d) Date Design Complete | 92 JUL 21 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 66 |
| (b) All Other Design Costs | 24 |
| (c) Total | 90 |
| (d) Contract | 90 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
CAMP PENDLETON MILITARY RESERVATION, VIRGINIA

4. AREA CONSTR COST INDEX 0.93

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
4 Naval Installations, 1 Army Installation, 5 Army National Guard Facilities and 2 Army Reserve Facilities

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 219-944 | BASE ENGINEER MAINTENANCE AND STORAGE FACILITY | 12,700 SF | 1,150 | AUG 88 | SEP 91 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 214-425 | VEHICLE MAINTENANCE COMPLEX | 15,500 SF | 1,750 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
CAMP PENDLETON MILITARY RESERVATION, VIRGINIA

11. PERSONNEL STRENGTH AS OF 17 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 29 | 3 | 26 | 0 | 220 | 11 | 209 |
| ACTUAL | 29 | 3 | 26 | 0 | 199 | 11 | 188 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 203 RHCEF | 220 | 199 |
| TOTALS | 220 | 199 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Training Equipment | 58 | 58 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 149 | 151 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CAMP PENDLETON MILITARY RESERVATION<br>VIRGINIA | BASE ENGINEER MAINTENANCE<br>AND STORAGE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 219-944 | ERVD889505 | $1,150 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE ENGINEER FACILITY | SF | 12,700 | | 953 |
| BASE ENGINEER MAINTENANCE SHOPS | SF | 8,900 | 90 | ( 801) |
| BASE ENGINEER STORAGE | SF | 3,800 | 40 | ( 152) |
| SUPPORTING FACILITIES | | | | 105 |
| UTILITIES | LS | | | ( 30) |
| PAVEMENTS | LS | | | ( 40) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| PRE WIRED WORK STATIONS | LS | | | ( 20) |
| DEMOLITION | LS | | | ( 10) |
| SUBTOTAL | | | | 1,058 |
| CONTINGENCY (5%) | | | | 53 |
| TOTAL CONTRACT COST | | | | 1,111 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 56 |
| TOTAL REQUEST | | | | 1,167 |
| TOTAL REQUEST (ROUNDED) | | | | 1,150 |

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel structure, masonry walls, and asphalt built up roofing. Provide all utilities, pavements, site improvements, and systems furniture. Demolish Buildings 74, 75, 76, and 77 at 2,346 SF each and Building 79 at 925 SF for a total of 10,309 SF.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 12,700 SF ADEQUATE: 0 SUBSTANDARD: 10,309 SF
PROJECT: Base Engineer Maintenance and Storage Facility (Current Mission).
REQUIREMENT: An adequately sized and properly configured facility to house full time civil engineering personnel that maintain the ANG facilities at Camp Pendleton and to train reserve civil engineering troops assigned to this RED HORSE squadron for their wartime mission. The RED HORSE Civil Engineering squadron has world wide mobility to beddown missions, to do heavy contruction and airfield repair. The squadron is used extensively in peacetime for humanitarian missions in third world countries and as a disaster response force for domestic emergencies.
CURRENT SITUATION: Civil Engineering has been temporarily housed in a grosaly undersized WWII temporary facility that is not within the limits of the ANG licenced property. The building is inadequate and poorly configured for proper utilization of the unit and is totally detrimental to the mission. There is insufficient shop space, classrooms and work areas. The building contains numerous health and safety code violations. This project is part of a phased program to construct new facilities for this RED HORSE squadron which was bedded down at this location in temporary facilities in 1984.
IMPACT IF NOT PROVIDED: Inadequate and inefficient training facilities

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

CAMP PENDLETON MILITARY RESERVATION VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEER MAINTENANCE AND STORAGE FACILITY | ERVD889505 |

for the unit. The continued use of an energy inefficient WWII building. Loss of productivity. Health and safety hazards caused by occupying a subatandard building. Low unit morale.
ADDITIONAL: The WW II facility being utilized for the Civil Engineering maintenance facility will be returned to the ARNG. Five WW II buildings with a combined square footage of 10,309 SF will be demolished by ANG and ARNG. These buildings are in the way of construction.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

CAMP PENDLETON MILITARY RESERVATION VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE ENGINEER MAINTENANCE AND STORAGE FACILITY | ERVD889505 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 88 AUG 05 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 90 MAY 11 |
| (d) Date Design Complete | 91 SEP 10 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 49 |
| (b) All Other Design Costs | 18 |
| (c) Total | 67 |
| (d) Contract | 67 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
RICHMOND IAP (BYRD FIELD), VIRGINIA

4. AREA CONSTR COST INDEX
0.94

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
7 Army National Guard, 2 Army Reserve, 1 Marine Corps Reserve, 1 Naval Reserve and 1 Military Entrance Processing Station.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 1,100 | NOV 91 | JUL 93 |
| 211-179 | ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK | 17,000 | SF | 1,300 | OCT 89 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | | LS | 3,900 |
| 131-111 | COMPOSITE SUPPORT FACILITY | 32,800 | SF | 4,250 |
| 211-152 | ADD TO AND ALTER F-16 AIRCRAFT MAINTENANCE COMPLEX | 23,100 | SF | 2,700 |
| 214-425 | VEHICLE MAINTENANCE COMPLEX | | LS | 1,900 |
| 216-642 | MUNITIONS MAINTENANCE AND STORAGE COMPLEX | 18,300 | SF | 3,400 |
| 442-758 | BASE SUPPLY COMPLEX | 32,400 | SF | 3,950 |
| 851-147 | ROAD | | LS | 110 |
| 880-232 | FIRE SUPPRESSION SYSTEM | | LS | 2,450 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
RICHMOND IAP (BYRD FIELD), VIRGINIA

11. PERSONNEL STRENGTH AS OF 20 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 363 | 11 | 56 | 296 | 1,194 | 138 | 1,056 |
| ACTUAL | 360 | 12 | 57 | 291 | 1,150 | 134 | 1,016 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 192 TFG SQ | 59 | 58 |
| 192 SEP FT | 57 | 60 |
| 149 TFG SQ | 58 | 55 |
| 192 CLM SQ | 547 | 472 |
| 192 MSQ FT | 41 | 38 |
| 192 MSQ SQ | 45 | 42 |
| 192 TCI CI | 73 | 56 |
| 192 CEG SQ | 124 | 116 |
| 192 SVS FT | 27 | 28 |
| 192 RMS SQ | 118 | 125 |
| 200 WEA FT | 21 | 20 |
| 8192 STU FT | 0 | 57 |
| HQ VA ANG | 24 | 23 |
| TOTALS | 1,194 | 1,150 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 24 | 26 |
| Support Equipment | 326 | 297 |
| Vehicle Equivalents | 234 | 278 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RICHMOND IAP (BYRD FIELD) VIRGINIA | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | CVVM909532 | $1,100 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 800 |
| SUPPORTING FACILITIES | | | | 160 |
| UTILITIES | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 20) |
| SITE IMPROVEMENTS | LS | | | ( 120) |
| SUBTOTAL | | | | 960 |
| CONTINGENCY (10%) | | | | 96 |
| TOTAL CONTRACT COST | | | | 1,056 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 53 |
| TOTAL REQUEST | | | | 1,109 |
| TOTAL REQUEST (ROUNDED) | | | | 1,100 |

10. Description of Proposed Construction: Replace 20 tanks. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all USTs regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated USTs have leak detection, corrosion protection and spill/overflow prevention systems by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The USTs at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated USTs require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

RICHMOND IAP (BYRD FIELD) VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | CVVM909532 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 08 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 55 |
| (b) All Other Design Costs | 27 |
| (c) Total | 82 |
| (d) Contract | 82 |
| (e) In-house | |
| (4) Construction Start | 94 APR |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| RICHMOND IAP (BYRD FIELD) VIRGINIA | ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 211-179 | GVVM899693 | $1,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD TO AND ALTER FUEL SYSTEMS DOCK | SF | 17,000 | | 738 |
| ADD TO FUEL SYSTEMS DOCK | SF | 6,000 | 90 | ( 540) |
| ALTER FUEL SYSTEMS DOCK | SF | 11,000 | 18 | ( 198) |
| SUPPORTING FACILITIES | | | | 450 |
| UTILITIES | LS | | | ( 40) |
| PAVEMENTS | LS | | | ( 35) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| ASBESTOS REMOVAL | LS | | | ( 50) |
| FIRE SUPPRESSION | LS | | | ( 170) |
| REPLACE HANGAR DOORS | LS | | | ( 150) |
| SUBTOTAL | | | | 1,188 |
| CONTINGENCY (5%) | | | | 59 |
| TOTAL CONTRACT COST | | | | 1,247 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 62 |
| TOTAL REQUEST | | | | 1,309 |
| TOTAL REQUEST (ROUNDED) | | | | 1,300 |

10. Description of Proposed Construction: Addition: Reinforced concrete foundation and floor slab, masonry and metal panel walls to match existing, structural steel frame, steel joists, metal pan roof and built up roofing. Alteration: Alter interior floor plan and upgrade utility systems. Extend fire suppression system. Provide environmental controls. Provide for asbestos removal, site improvements, utilities and pavements. Air Conditioning: 10 Tons.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 11,000 SF
PROJECT: Add to and Alter Fuel Systems Maintenance Dock (New Mission).
REQUIREMENT: This project supports the conversion from A-7 to F-16 aircraft in October 1991 and is a level II environmental compliance project. Perform environmentally safe corrosion control work on the F-16 aircraft which consista of washing and solvent cleaning the aircraft and the painting of aircraft parts on and off the aircraft. Functional areas include administration, corrosion control hangar bay and paint spray areas and associated equipment for both large and small parts that might be on or off the aircraft.
CURRENT SITUATION: Both fuel systems maintenance and corrosion control requirements for the A-7 aircraft are being accomplished in the single open bay. The facility is 65 percent of what is authorized/required. Only one of these functions can take place at a time, which leads to delays in required maintenance. The F-16 aircraft is more fuel cell work intensive and requires a dedicated dock for each function. When the facility is required for fuel cell work the corrosion control work must be accomplished outdoors; this is impossible during inclement weather and for the majority of the wet cold Virginia winter. During intensive weekend training it is necessary to schedule fuel cell work and corrosion control

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

RICHMOND IAP (BYRD FIELD) VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK | CVVM899693 |

work at the same time. This cannot be accomplished with the exiating facilities. The alteration of the existing facility will have to address modifications to the oil/water separator and fuel containment facilities. The mechanical systems will need to be modified as painting operations are to be moved to the addition. The hangar doors are a constant maintenance/repair problem and are dangerous to personnel and high value aircraft.

IMPACT IF NOT PROVIDED: Inefficient and ineffective training of the weekend forces. Poor working conditions for the full time forces and poor training conditions for the weekend forces. The mission capability of the corroaion control shop and the fuel cell shop and the health and welfare of their personnel are adversely affected. The unit is not able to support the corrosion control functions. Environmental statutes could be violated through air pollution, water pollution and soil contamination. Hangar doors continue to be a safety hazard and a drain on maintenance resourcea.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

RICHMOND IAP (BYRD FIELD) VIRGINIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK | CVVM899693 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 OCT 12 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 JUL 09 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 65 |
| (b) | All Other Design Costs | 30 |
| (c) | Total | 95 |
| (d) | Contract | 95 |
| (e) | In-house | |
| (4) Construction Start | | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BELLINGHAM MUNICIPAL AIRPORT ANG, WASHINGTON

4. AREA CONSTR COST INDEX
1.15

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, weekends by full-time technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
286 Engr Co (Army National Guard)

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 420 | FEB 92 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
BELLINGHAM MUNICIPAL AIRPORT ANG, WASHINGTON

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 24 | 2 | 22 | 0 | 144 | 10 | 134 |
| ACTUAL | 23 | 2 | 21 | 0 | 131 | 10 | 121 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 262 CC SQ | 144 | 131 |
| TOTALS | 144 | 131 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| M-Series Vehicles | 51 | 53 |
| Generators | 18 | 16 |
| Misc Equipment | 10 | 6 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 0 | 0 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BELLINGHAM MUNICIPAL AIRPORT ANG WASHINGTON | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | BFHV909574 | $420 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 300 |
| SUPPORTING FACILITIES | | | | 66 |
| UTILITIES | LS | | | ( 6) |
| PAVEMENTS | LS | | | ( 6) |
| SITE IMPROVEMENTS | LS | | | ( 54) |
| SUBTOTAL | | | | 366 |
| CONTINGENCY (10%) | | | | 37 |
| TOTAL CONTRACT COST | | | | 403 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 20 |
| TOTAL REQUEST | | | | 423 |
| TOTAL REQUEST (ROUNDED) | | | | 420 |

10. Description of Proposed Construction: Replace 6 tanks and remove only 2 others. Excavate and remove the tanks. Dispose of the tanks and tank residue and contaminated soil and restore sites.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA atandards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

BELLINGHAM MUNICIPAL AIRPORT ANG WASHINGTON

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | BFHV909574 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 FEB 03 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 15 |
| (d) Date Design Complete | 93 JUL 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 21 |
| (b) All Other Design Costs | 12 |
| (c) Total | 33 |
| (d) Contract | 33 |
| (e) In-house | |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
CAMP MURRAY ANG STATION, WASHINGTON

4. AREA CONSTR COST INDEX
1.11

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, weekends by full-time technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
McChord AFB (Active Air Force), Ft. Lewis (Active Army), Camp Murray (Army)

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 380 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
CAMP MURRAY ANG STATION, WASHINGTON

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 131 | 23 | 107 | 1 | 635 | 96 | 539 |
| ACTUAL | 127 | 15 | 111 | 1 | 618 | 90 | 528 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ WA ANG | 33 | 34 |
| 252 CC GP | 73 | 68 |
| DET1 HQ | 79 | 73 |
| 256 CC SQ | 157 | 163 |
| 241 CES | 100 | 106 |
| 111 ASOC | 119 | 117 |
| 116 TACPF | 61 | 42 |
| 116 WF | 13 | 15 |
| TOTALS | 635 | 618 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| MRC-108 | 47 | 33 |
| M Series Vehicle | 276 | 261 |
| Generators | 101 | 60 |
| GRC-206 | 53 | 1 |
| Misc Equipment | 42 | 39 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 0 | 0 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| FOUR LAKES COMMUNICATIONS STATION, WASHINGTON | 1.15 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year; 15 days Annual Field Training per year; daily use by Technician and AGR personnel and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army Nat'l Guard units, 2 Air Nat'l Guard units, 1 Army Reserve unit, 1 Naval Reserve unit, 1 Coast Guard Reserve unit, 1 Marine Reserve unit, 1 Air Force Base

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | 360 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | REPLACE DERA USTS | LS | | 700 |
| 171-447 | COMMUNICATIONS AND ELECTRONICS TRAINING FACILITY | 12,400 | SF | 1,850 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
FOUR LAKES COMMUNICATIONS STATION, WASHINGTON

11. PERSONNEL STRENGTH AS OF 30 MAY 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 40 | 0 | 5 | 35 | 266 | 26 | 240 |
| ACTUAL | 39 | 0 | 5 | 34 | 245 | 22 | 223 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 105 TAC SQ | | 266 | 245 |
| | TOTALS | 266 | 245 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Vans/Electronic | 38 | 31 |
| Support Equipment | 86 | 38 |
| Vehicle Equivalents | 338 | 338 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
PAINE FIELD ANG STATION, WASHINGTON

4. AREA CONSTR COST INDEX 1.15

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, weekends by full-time technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
Sand Point Naval Housing Area (Active Navy), Everett Armory (Army National Guard, 124 ARCOM (Army Reserve)

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 320 | FEB 92 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
PAINE FIELD ANG STATION, WASHINGTON

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 18 | 1 | 17 | 0 | 208 | 11 | 197 |
| ACTUAL | 18 | 1 | 17 | 0 | 213 | 11 | 202 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|
| 215 EIS | | 208 | 213 |
| | TOTALS | 208 | 213 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 24 | 16 |
| Vehicle Equivalents | 51 | 47 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>SEATTLE AIR NATIONAL GUARD BASE, WASHINGTON | | 4. AREA CONSTR COST INDEX<br>1.14 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, weekends by full-time technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
AFLC Warehouse (Active Air Force), Seattle Armory (Active National Guard)

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 320 | NOV 91 | JUL 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 16 APR 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
SEATTLE AIR NATIONAL GUARD BASE, WASHINGTON

11. PERSONNEL STRENGTH AS OF 28 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 25 | 2 | 23 | 0 | 161 | 9 | 152 |
| ACTUAL | 25 | 2 | 23 | 0 | 154 | 9 | 145 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 143 CC SQ | 161 | 154 |
| TOTALS | 161 | 154 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| M-Series Vehicles | 87 | 87 |
| Misc Equipment | 16 | 12 |
| Support Equipment | 0 | 0 |
| Vehicle Equivalents | 0 | 0 |

| 1. COMPONENT ANG | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE MAR 93 |
|---|---|---|
| 3. INSTALLATION AND LOCATION<br>EWVRA SHEPHERD FIELD ANG, WEST VIRGINIA | | 4. AREA CONSTR COST INDEX 0.83 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 3 Army Reserve Training Centers

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 171-873 | ADD TO AERIAL PORT TRAINING FACILITY | 2,000 SF | 390 | NOV 90 | JUL 92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 510 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
EWVRA SHEPHERD FIELD ANG, WEST VIRGINIA

11. PERSONNEL STRENGTH AS OF 18 SEP 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 315 | 28 | 271 | 16 | 1,232 | 205 | 1,027 |
| ACTUAL | 306 | 27 | 263 | 16 | 1,164 | 198 | 966 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 167 TAG HQ | 57 | 52 |
| 167 TAL SQ | 137 | 129 |
| 167 MSS SQ | 45 | 37 |
| 167 CLM SQ | 264 | 243 |
| 167 TCI CI | 73 | 57 |
| 167 CEG SQ | 148 | 136 |
| 167 SEP FT | 57 | 50 |
| 167 MAP HQ | 106 | 99 |
| 167 AE FT | 157 | 128 |
| 167 RMS SQ | 120 | 114 |
| 167 MSS FT | 41 | 39 |
| 167 SVS FT | 27 | 20 |
| 8167 STU FT | 0 | 60 |
| TOTALS | 1,232 | 1,164 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130E Aircraft | 12 | 12 |
| Support Equipment | 151 | 130 |
| Vehicle Equivalents | 303 | 293 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>YEAGER AIRPORT ANG, WEST VIRGINIA | | 4. AREA CONSTR COST INDEX<br>0.94 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 1 Army Reserve Training Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 370 | NOV 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 18 DEC 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | UPGRADE JET FUEL STORAGE TANKS | | LS | 860 |
| 219-944 | BASE CIVIL ENGINEERING COMPLEX | 21,700 | SF | 2,250 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
YEAGER AIRPORT ANG, WEST VIRGINIA

11. PERSONNEL STRENGTH AS OF 30 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 310 | 27 | 244 | 39 | 973 | 143 | 830 |
| ACTUAL | 268 | 30 | 199 | 39 | 941 | 129 | 812 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 130 TAG WV | 28 | 29 |
| 130 AG | 57 | 54 |
| 130 AS | 96 | 82 |
| 130 MSS | 45 | 45 |
| 130 CAMS | 172 | 152 |
| 130 TAC GL | 71 | 66 |
| 130 CES | 136 | 127 |
| 130 SPF | 57 | 56 |
| 130 MAPS | 106 | 97 |
| 130 WEF | 13 | 12 |
| 130 RMS | 120 | 109 |
| 130 MSF | 41 | 37 |
| 130 SVF | 25 | 25 |
| 130 STUF | 6 | 50 |
| TOTALS | 973 | 941 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H Aircraft | 8 | 8 |
| Support Equipment | 217 | 181 |
| Vehicle Equivalents | 286 | 294 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
GENERAL MITCHELL INT'L AIRPORT, WISCONSIN

4. AREA CONSTR COST INDEX
1.08

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training and alert SAC alert missions.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
11 Army Reserve Armories, 5 Army National Guard Armories, 1 Naval/Marine Facility and 1 Air Force Reserve Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | 600 | SEP 91 | AUG 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 22 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 121-122 | UPGRADE HYDRANT FUELING SYSTEM | LS | 500 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
GENERAL MITCHELL INT'L AIRPORT, WISCONSIN

11. PERSONNEL STRENGTH AS OF 8 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 338 | 15 | 69 | 254 | 1,074 | 134 | 940 |
| ACTUAL | 330 | 14 | 63 | 253 | 994 | 135 | 859 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 126 AREFS | 74 | 72 |
| 126 WEA FT | 13 | 12 |
| 128 AREFG | 69 | 70 |
| 128 CLM SQ | 354 | 309 |
| 128 MSS SQ | 46 | 43 |
| 128 TCI CI | 55 | 54 |
| 128 CEG SQ | 159 | 132 |
| 128 SVS FT | 27 | 25 |
| 128 SEP FT | 75 | 79 |
| 128 MSS FT | 41 | 42 |
| 128 RMS SQ | 120 | 114 |
| 8128 STU FT | 41 | 42 |
| TOTALS | 1,074 | 994 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| KC-135R Aircraft | 10 | 10 |
| Support Equipment | 179 | 136 |
| Vehicle Equivalents | 245 | 245 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GENERAL MITCHELL INT'L AIRPORT WISCONSIN | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | HTUV909541 | $600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 420 |
| SUPPORTING FACILITIES | | | | 98 |
| UTILITIES | LS | | | ( 7) |
| PAVEMENTS | LS | | | ( 7) |
| SITE IMPROVEMENTS | LS | | | ( 84) |
| SUBTOTAL | | | | 518 |
| CONTINGENCY (10%) | | | | 52 |
| TOTAL CONTRACT COST | | | | 570 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 29 |
| TOTAL REQUEST | | | | 599 |
| TOTAL REQUEST (ROUNDED) | | | | 600 |

10. Description of Proposed Construction: Replace 7 tanks and remove only 7 others. Excavate and remove the tanks. Dispose of the tanks, tank residue and the contaminated soil and restore sites.

11. REQUIREMENT: As required.
PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).
REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If UST are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.
CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.
IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. The ANG training could be curtailed and the ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

GENERAL MITCHELL INT'L AIRPORT WISCONSIN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | HTUV909541 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 SEP 19 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 NOV 15 |
| (d) Date Design Complete | 93 AUG 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Moat Recently Uaed - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 33 |
| (b) All Other Design Costs | 20 |
| (c) Total | 53 |
| (d) Contract | 53 |
| (e) In-house | |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>TRUAX FIELD, WISCONSIN | | 4. AREA CONSTR COST INDEX<br>1.02 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Center, 2 Army Reserve Centers and 1 Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 730-142 | FIRE STATION | 9,300 SF | 1,400 | NOV 91 | JUN 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 22 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|
| 124-135 | JET FUEL STORAGE COMPLEX | LS | 4,000 |
| 124-135 | REPLACE DERA USTS | LS | 3,150 |
| 216-642 | ALTER MUNITIONS SHOP | 14,000 SF | 610 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
TRUAX FIELD, WISCONSIN

11. PERSONNEL STRENGTH AS OF 7 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 337 | 25 | 249 | 63 | 1,025 | 122 | 903 |
| ACTUAL | 327 | 24 | 240 | 63 | 1,003 | 126 | 877 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| HQ WI ANG | 34 | 32 |
| 115 SEP FT | 57 | 51 |
| 115 RMS SQ | 120 | 116 |
| 115 CEG SQ | 124 | 114 |
| 115 TCI CI | 67 | 57 |
| 115 CLM SQ | 405 | 382 |
| 115 SVS FT | 25 | 22 |
| 115 MSS FT | 40 | 36 |
| 115 MSS SQ | 45 | 41 |
| 128 TFW HQ | 58 | 61 |
| 176 TFS SQ | 50 | 41 |
| 8115 STU FT | 0 | 50 |
| TOTALS | 1,025 | 1,003 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 Aircraft | 18 | 0 |
| A-10 Aircraft | 18 | 22 |
| C-130 Aircraft | 1 | 1 |
| Support Equipment | 88 | 82 |
| Vehicle Equivalents | 238 | 291 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRUAX FIELD WISCONSIN | FIRE STATION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 730-142 | XGFG919507 | $1,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| FIRE STATION | SF | 9,300 | 100 | 930 |
| SUPPORTING FACILITIES | | | | 325 |
| UTILITIES | LS | | | ( 90) |
| PAVEMENTS | LS | | | ( 100) |
| SITE IMPROVEMENTS | LS | | | ( 75) |
| COMMUNICATION | LS | | | ( 10) |
| DISPOSAL/ASBESTOS REMOVAL | LS | | | ( 50) |
| SUBTOTAL | | | | 1,255 |
| CONTINGENCY (5%) | | | | 63 |
| TOTAL CONTRACT COST | | | | 1,318 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 66 |
| TOTAL REQUEST | | | | 1,384 |
| TOTAL REQUEST (ROUNDED) | | | | 1,400 |

10. Description of Proposed Construction: Reinforced concrete floors and walls include necessary structural, mechanical and electrical systems. Concrete pavements and driveways. Provide all utilities and support. Demolish Building 403 (10,071 SF).
Air Conditioning: 8 Tons.

11. REQUIREMENT: 9,300 SF ADEQUATE: 0 SUBSTANDARD: 10,071 SF
PROJECT: Fire Station (Current Mission).
REQUIREMENT: An adequately sized and properly configured facility to support crash and fire rescue operations. This includes apparatus bays, storage space, extinguisher maintenance shop, kitchen and dining area, control room, classroom, administrative areas and bunkrooms for 24 full time firefighters.
CURRENT SITUATION: The existing fire station is an old wood frame structure that was constructed in 1953. The bunkrooms, locker rooms and kitchen are currently located in inadequate space which has antiquated electrical and mechanical systems that do not meet current building code requirements. Some foundation failure has resulted in floor and wall damage. The existing location of the station makes it difficult to access the airfield. The Master Plan shows a hangar extension into the existing fire station area.
IMPACT IF NOT PROVIDED: Improper training. Equipment exposed to the elements are deteriorating at a faster rate. Hardships on the overall fire protection operation which ultimately jeopardizes crash rescue and fire fighting capabilities.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

TRUAX FIELD WISCONSIN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| FIRE STATION | XGFG919507 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 91 NOV 26 |
| (b) Percent Complete as of Jan 93 | 35% |
| (c) Date 35% Designed | 92 DEC 01 |
| (d) Date Design Complete | 93 JUN 20 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 67 |
| (b) All Other Design Costs | 44 |
| (c) Total | 111 |
| (d) Contract | 111 |
| (e) In-house | |
| (4) Construction Start | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>VOLK FIELD AIR NATIONAL GUARD BASE, WISCONSIN | | 4. AREA CONSTR COST INDEX<br>1.06 |

5. FREQUENCY AND TYPE OF UTILIZATION
Year round operational training of Air National Guard Units and other Reserve and Guard components and Active Military Units.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 510 | JUL 91 | FEB 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 22 OCT 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | UPGRADE JET FUEL STORAGE COMPLEX | | LS | 2,800 |
| 179-511 | FIREMEN TRAINING FACILITY | | LS | 680 |
| 422-264 | MUNITIONS STORAGE IGLOOS | 3,600 | SF | 700 |
| 442-758 | BASE SUPPLY WAREHOUSE | 36,400 | SF | 3,900 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
VOLK FIELD AIR NATIONAL GUARD BASE, WISCONSIN

11. PERSONNEL STRENGTH AS OF 31 JUN 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 155 | 12 | 73 | 70 | 176 | 21 | 155 |
| ACTUAL | 155 | 12 | 73 | 70 | 176 | 21 | 155 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| VOLK CRTC | 85 | 85 |
| 128 AC SQ | 91 | 91 |
| TOTALS | 176 | 176 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 263 | 243 |
| Vehicle Equivalents | 728 | 638 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VOLK FIELD AIR NATIONAL GUARD BASE WISCONSIN | REPLACE UNDERGROUND FUEL STORAGE TANKS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 124-135 | YAOF919746 | $510 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | LS | | | 350 |
| SUPPORTING FACILITIES | | | | 88 |
| UTILTIES | LS | | | ( 11) |
| PAVEMENTS | LS | | | ( 11) |
| SITE RESTORATION | LS | | | ( 66) |
| SUBTOTAL | | | | 438 |
| CONTINGENCY (10%) | | | | 44 |
| TOTAL CONTRACT COST | | | | 482 |
| SUPERVISION, INSPECTION AND OVERHEAD (5%) | | | | 24 |
| TOTAL REQUEST | | | | 506 |
| TOTAL REQUEST (ROUNDED) | | | | 510 |

10. Description of Proposed Construction: Replace 11 tanks. Excavate and remove the tanks, dispose of the tanks and tank residue and the contaminated soil.

11. REQUIREMENT: As required.

PROJECT: Replace Underground Fuel Storage Tanks (UST) (Current Mission).

REQUIREMENT: This is a level II environmental compliance project. Upgrade all UST regulated by 40 CFR 280 to new construction standards. The Federal Environmental Protection Agency (EPA) has set standards that require that all regulated UST to have leak detection, corrosion protection, and spill/overflow prevention system by December 1998. If USTs are to be replaced, it is Air Force policy to replace them with above ground tanks or to relocate them into underground vaults if possible.

CURRENT SITUATION: The UST at this base have exceeded their design lives and are in need of replacement. All tanks are out of compliance with the 1998 EPA standards. All the regulated UST require annual tightness testing, daily fluid level monitoring and monthly inventory reconciliation and control. If these tasks are not performed, the base is subject to Notice of Violations by the Federal and/or State EPA.

IMPACT IF NOT PROVIDED: Non-compliance with Statutes. The State and County may issue restraints and/or Notices of Violations and fines. Any leakage has the potential to contaminate the soil and aquifer. Training of base and deployed units would be severly impacted. ANG could receive unfavorable publicity.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

VOLK FIELD AIR NATIONAL GUARD BASE WISCONSIN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE UNDERGROUND FUEL STORAGE TANKS | YAOF919746 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 91 JUL 12 |
| (b) | Percent Complete as of Jan 93 | 95% |
| (c) | Date 35% Designed | 92 JUL 31 |
| (d) | Date Design Complete | 93 FEB 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 26 |
| (b) | All Other Design Costs | 11 |
| (c) | Total | 37 |
| (d) | Contract | 37 |
| (e) | In-house | |
| (4) Construction Start | | 94 AUG |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>ANDERSEN AIR FORCE BASE, GUAM | | 4. AREA CONSTR COST INDEX<br>2.03 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual training per year and daily use by AGR force for storage of supplies and equipment.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
13 AF Headquarters, 633 ABW, 44 Aero Port Squadron, Guam Army National Guard, U. S. Naval Air Station, U. S. NAVCAMS

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|
| 442-758 | BASE SUPPLIES AND EQUIPMENT WAREHOUSE | 4,000 SF | 400 | JUL 92 | SEP 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 9 JUL 92 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) |
|---|---|---|---|

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |

3. INSTALLATION AND LOCATION
ANDERSEN AIR FORCE BASE, GUAM

11. PERSONNEL STRENGTH AS OF 30 AUG 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 21 | 4 | 14 | 3 | 171 | 20 | 151 |
| ACTUAL | 20 | 4 | 14 | 2 | 171 | 20 | 151 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | | | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|---|---|
| HQ | GU ANG | | 4 | 3 |
| 254 | ABG | | 42 | 36 |
| 254 | CES | | 100 | 103 |
| 254 | SFV | | 25 | 29 |
| | | TOTALS | 171 | 171 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| Support Equipment | 5 | 5 |
| Vehicle Equivalents | 0 | 0 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| ANG | | MAR 93 |
| 3. INSTALLATION AND LOCATION<br>PUERTO RICO IAP, PUERTO RICO | | 4. AREA CONSTR COST INDEX<br>1.12 |

5. FREQUENCY AND TYPE OF UTILIZATION
Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air National Guard Unit, 1 Active Army Unit, 8 Army National Guard Units, 3 Army Reserve Units and 2 Naval Units.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 94

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) | DESIGN STATUS START | DESIGN STATUS CMPL |
|---|---|---|---|---|---|---|
| 211-179 | ALTER FUEL SYSTEMS MAINTENANCE FACILITY | 10,500 | SF | 750 | AUG 90 | JAN 92 |
| 217-712 | ADD TO AND ALTER F-16 AVIONICS SHOP | 3,000 | SF | 320 | FEB 92 | AUG 93 |
| 872-841 | UPGRADE F-16 AIRCRAFT PARKING RAMP SECURITY SYSTEM | | LS | 2,000 | SEP 89 | MAY 93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 17 SEP 92 (Date)

9. LAND ACQUISITION REQUIRED — None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | | COST ($000) |
|---|---|---|---|---|
| 124-135 | UPGRADE JET FUEL STORAGE | | LS | 1,750 |
| 124-135 | REPLACE UNDERGROUND FUEL STORAGE TANKS | | LS | 400 |
| 124-135 | REPLACE DERA USTS | | LS | 1,360 |
| 171-450 | COMPOSITE MEDICAL TRAINING AND DINING HALL | 19,200 | SF | 3,400 |
| 211-159 | ADD TO AND ALTER AIRCRAFT CORROSION CONTROL FACILITY | 7,000 | SF | 760 |
| 211-159 | AIRCRAFT WASH RACK | | LS | 500 |
| 216-642 | F-16 MUNITIONS MAINTENANCE AND | 17,900 | SF | 3,250 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE | 2. DATE |
|---|---|---|
| ANG | MILITARY CONSTRUCTION | MAR 93 |

3. INSTALLATION AND LOCATION
PUERTO RICO IAP, PUERTO RICO

11. PERSONNEL STRENGTH AS OF 14 JUL 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 341 | 24 | 244 | 73 | 982 | 113 | 869 |
| ACTUAL | 301 | 22 | 208 | 71 | 934 | 105 | 829 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 156 TFG SQ | 56 | 53 |
| 156 CEG SQ | 124 | 116 |
| 156 CLM SQ | 368 | 343 |
| 156 TFG OL | 7 | 7 |
| 156 MSQ FT | 44 | 42 |
| 156 MSQ SQ | 45 | 43 |
| 156 RMS SQ | 122 | 118 |
| 156 SVS FT | 34 | 33 |
| 156 TCI OL | 3 | 2 |
| 156 TCI CI | 73 | 68 |
| 156 SEP FT | 57 | 57 |
| 198 TFG SQ | 49 | 52 |
| TOTALS | 982 | 934 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| F-16 A/B Aircraft | 18 | 20 |
| C-26 Aircraft | 1 | 1 |
| Support Equipment | 110 | 92 |
| Vehicle Equivalents | 104 | 93 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PUERTO RICO IAP PUERTO RICO | ALTER FUEL SYSTEMS MAINTENANCE FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55256F | 211-179 | TUMR899534 | $750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER FUEL SYSTEMS MAINTENANCE DOCK | SF | 10,500 | 57 | 599 |
| SUPPORTING FACILITIES | | | | 45 |
| UTILITIES | LS | | | ( 15) |
| FIRE SUPPRESSION SYSTEM | LS | | | ( 30) |
| SUBTOTAL | | | | 644 |
| CONTINGENCY (10%) | | | | 64 |
| TOTAL CONTRACT COST | | | | 708 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 46 |
| TOTAL REQUEST | | | | 754 |
| TOTAL REQUEST (ROUNDED) | | | | 750 |

10. Description of Proposed Construction: Alter hangar by construction of a drainage system and oil/water separator. Upgrade ventilation system. Enclose hangar by adding a back wall and hangar doors on the front. Install a fire detection and fire suppression system(s). Rearrange interior partitions. Provide alterations and additions to utilities. Air Conditioning: 5 Tons.

11. REQUIREMENT: 11,000 SF ADEQUATE: 500 SF SUBSTANDARD: 10,500 SF
PROJECT: Alter Fuel Systems Maintenance Facility (New Mission).
REQUIREMENT: This is a level II environmental compliance project and also supports the conversion from A-7 to F-16 aircraft in October 1992. A properly configured fuel systems maintenance facility with environmental controls to protect against soil, water and air pollution is required to perform maintenance and repair on fuel bladders. Functional areas include fuel cell maintenance bay, bladder repair shop and miscellaneous support shop space.
CURRENT SITUATION: Currently both corrosion control work and fuel cell maintenance work are being accomplished in the same facility. The current open hangar must be converted to an environmentally safe fuel cell facility. The existing facility does not have the proper ventilation system and without significant modification will be a safety and environmental problem. The current hangar does not have a drainage system with oil/water separator and without this system could be an environmental danger to the soil and water in the case of a fuel spill. The hangar is without proper fire detection and fire suppression system(s). Internal shop space must be altered for efficient operation as a fuel cell maintenance facility.
IMPACT IF NOT PROVIDED: Unable to perform the increased fuel cell

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |
| 3. INSTALLATION AND LOCATION | | |
| PUERTO RICO IAP PUERTO RICO | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| ALTER FUEL SYSTEMS MAINTENANCE FACILITY | | TUMR899534 |

maintenance associated with the F-16 aircraft. Inadequate maintenance and maintenance backups will occur. Improper mechanical systems and environmental controls would adversely affect quality of maintenance, and could lead to air, water or soil pollution.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

PUERTO RICO IAP PUERTO RICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER FUEL SYSTEMS MAINTENANCE FACILITY | TUMR899534 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 90 AUG 13 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 91 APR 09 |
| (d) | Date Design Complete | 92 JAN 03 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 30 |
| (b) | All Other Design Costs | 20 |
| (c) | Total | 50 |
| (d) | Contract | 50 |
| (e) | In-house | |
| (4) Construction Start | | 94 JUN |

b. Equipment aassociated with this project will be provided from other appropriationa: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 199 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PUERTO RICO IAP PUERTO RICO | UPGRADE F-16 AIRCRAFT PARKING RAMP SECURITY SYSTEM |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 872-841 | TUMR899771 | $2,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE RAMP SECURITY | LS | | | 1,500 |
| SUPPORTING FACILITIES | | | | 210 |
| UTILITIES | LS | | | ( 155) |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 1,710 |
| CONTINGENCY (10%) | | | | 171 |
| TOTAL CONTRACT COST | | | | 1,881 |
| SUPERVISION, INSPECTION AND OVERHEAD (6.5%) | | | | 122 |
| TOTAL REQUEST | | | | 2,003 |
| TOTAL REQUEST (ROUNDED) | | | | 2,000 |

10. Description of Proposed Construction: Double security fence, gates, entry control point, lighting system, sensors, CCTV and communications. Conduits and restoration of cut pavements.

11. REQUIREMENT: As required.

PROJECT: Upgrade F-16 Aircraft Parking Ramp Security System (New Mission).

REQUIREMENT: This project supports the conversion from A-7 aircraft to F-16 aircraft in October 1992. The base requires a proper security system to protect the 18 F-16 parked on the ANG ramp area.

CURRENT SITUATION: In 1981 the base was attacked by terrorists and nine A-7 aircraft were destroyed on the ramp. Subsequently, security measures were taken to protect the aircraft ramp area. These included a double security fence with controlled entry gates, interior and exterior perimeter lights, visual control tower, sensors, Closed Circuit Television (CCTV) and response teams. The existing aircraft ramp area and immediate operational areas are totally enclosed behind by a double fence and sensor system. With the expansion of the ramp and operational areas by separate and related FY 93 MILCON projects to support the new F-16 aircraft, it is necessary to expand the security system to enclose the new facilities and operational areas. It is also necessary to upgrade the security system utilizing current technology. Another incident, in the spring of 1991, damaged two more A-7 aircraft. Security officials have verified that the threat still exists.

IMPACT IF NOT PROVIDED: Unable to secure the F-16 aircraft and the expanded operational area. Possible compromise, damage or loss of aircraft.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

PUERTO RICO IAP PUERTO RICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE F-16 AIRCRAFT PARKING RAMP SECURITY SYSTEM | TUMR899771 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 SEP 25 |
| (b) Percent Complete as of Jan 93 | 40% |
| (c) Date 35% Designed | 92 OCT 01 |
| (d) Date Design Complete | 93 MAY 15 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 50 |
| (b) All Other Design Costs | 25 |
| (c) Total | 75 |
| (d) Contract | 75 |
| (e) In-house | |
| (4) Construction Start | 94 JUN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $400,000 AND UNDER - FY 94 | VARIOUS |

| STATE AND LOCATION / PROJECT NUMBER | PROJECT TITLE | COST |
|---|---|---|
| CALIFORNIA | | |
| Ontario International Airport ANG | | |
| PN SKKA909552 | Replace Underground Fuel Storage Tanks | 310 |
| Replace one underground fuel storage tank to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission) | | |
| GEORGIA | | |
| Lewis B Wilson Airport (ANG) | | |
| PN EAZP929786 | Replace Underground Fuel Storage Tanks | 340 |
| Replace three underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission) | | |
| GEORGIA | | |
| McCollum ANG Station | | |
| PN PRNG929785 | Replace Underground Fuel Storage Tanks | 315 |
| Replace four underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission) | | |
| GEORGIA | | |
| Savannah ANG Communications Station | | |
| PN UZXM909586 | Replace Underground Fuel Storage Tanks | 330 |
| Replace five underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission) | | |
| GEORGIA | | |
| Savannah International Airport | | |
| PN XDQU909666 | Replace Underground Fuel Storage Tanks | 315 |
| Replace four underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission) | | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $400,000 AND UNDER - FY 94 | VARIOUS |

| STATE AND LOCATION / PROJECT NUMBER | PROJECT TITLE | COST |
|---|---|---|
| LOUISIANA | | |
| Hammond ANG Communication Station | | |
| PN KAFF909558 | Replace Underground Fuel Storage Tanks | 350 |

Replace six underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| LOUISIANA | | |
| New Orleans NAS ANG | | |
| PN KAFF909558 | Replace Underground Fuel Storage Tanks | 350 |

Replace six underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| MISSISSIPPI | | |
| Gulfport-Biloxi Regional Airport | | |
| PN JTVE909660 | Replace Underground Fuel Storage Tanks | 335 |

Replace six underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| MONTANA | | |
| Great Falls IAP ANG | | |
| PN JKSE909622 | Replace Underground Fuel Storage Tanks | 400 |

Replace six underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| NEW MEXICO | | |
| Kirtland Air Force Base | | |
| PN MHMV929934 | Alter Operational Training Facility | 390 |

Alteration of areas vacated by medical training function that is moving to FY 90 MCP facility. Replacement of heating/ventilation/air conditioning systems. Replacement and upgrade of fire detection and suppression systems. (Current Mission)

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $400,000 AND UNDER - FY 94 | VARIOUS |

| STATE AND LOCATION<br>PROJECT NUMBER | PROJECT TITLE | COST |
|---|---|---|
| NEW MEXICO<br>Kirtland Air Force Base<br>PN MHMV899523 | Alter Maintenance Shops | 345 |

Convert the existing aircraft engine inspection, maintenance and repair shop into aircraft ground equipment and general purpose shop(s). The new engine shop project demolishes a building containing the existing shop spaces that are provided new in this project. (New Mission)

| | | |
|---|---|---|
| NEW YORK<br>Stewart International Airport<br>PN WHAY929777 | Industrial Waste Holding Pond | 320 |

Holding pond consisting of earth berms, reinforced liner, diversion structure, piping, electric power and associated access. (Current Mission)

| | | |
|---|---|---|
| NORTH DAKOTA<br>Hector International Airport<br>PN KKGA929813 | Upgrade Storm Drainage | 400 |

Construct reinforced concrete pipe culvert in an open drainage ditch. Upgrade utilities and roads. (Current Mission)

| | | |
|---|---|---|
| SOUTH DAKOTA<br>Joe Foss Field ANG<br>PN LUXC899718 | Alter Composite Operations and Training Facility | 350 |

Alteration of areas vacated by the functions to be relocated in the Composite Support Facility. The alteration will match existing Squadron Operations Facility and O&T facilities. Asbestos removal and roof repairs in Buildings 30 and 60. (Current Mission)

| | | |
|---|---|---|
| WASHINGTON<br>Camp Murray ANG Station<br>PN ETRD909584 | Replace Underground Fuel Storage Tanks | 380 |

Replace five underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $400,000 AND UNDER - FY 94 | VARIOUS |

| STATE AND LOCATION<br>PROJECT NUMBER | PROJECT TITLE | COST |
|---|---|---|
| WASHINGTON<br>Four Lakes Communications Station<br>PN GXTN909575 | Replace Underground Fuel Storage Tanks | 360 |

Replace six underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| WASHINGTON<br>Paine Field ANG Station<br>PN STDF909570 | Replace Underground Fuel Storage Tanks | 320 |

Replace four underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| WASHINGTON<br>Seattle Air National Guard Base<br>PN VFUL909594 | Replace Underground Fuel Storage Tanks | 320 |

Replace three underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| | | |
|---|---|---|
| WEST VIRGINIA<br>EWVRA Shepherd Field ANG<br>PN PJVY909875 | Add to Aerial Port Training Facility | 390 |

Includes a parachute drying tower and an addition to the Aerial Delivery Section. (Current Mission)

| | | |
|---|---|---|
| WEST VIRGINIA<br>Yeager Airport ANG<br>PN LYBH909659 | Replace Underground Fuel Storage Tanks | 370 |

Replace five underground fuel storage tanks to conform to EPA regulations, to preclude contamination of soil and aquifer, including all site work and restoration. (Current Mission)

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

3. INSTALLATION AND LOCATION
VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| PROJECTS $400,000 AND UNDER - FY 94 | VARIOUS |

| STATE AND LOCATION<br>PROJECT NUMBER | PROJECT TITLE | COST |
|---|---|---|
| GUAM | | |
| Andersen Air Force Base | | |
| PN AJJY929856 | Base Supplies and Equipment Warehouse | 400 |

Slab on grade construction, foundation, masonry walls, concrete columns, and roof. Includes site preparation, utilities, and pavements. (Current Mission)

| | | |
|---|---|---|
| PUERTO RICO | | |
| Puerto Rico IAP | | |
| PN TUMR929745 | Add to and Alter Avionics Shop | 320 |

Addition to Avionics Shop to support Avionics/ECM for conversion to F-16 aircraft. New construction to match existing. Minor alterations to shops to accommodate new equipment. (New Mission)

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS (UNSPECIFIED) | PLANNING AND DESIGN |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 010-000 | AAAA919560 | $9,900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PLANNING AND DESIGN | LS | | | 9,900 |
| SUBTOTAL | | | | 9,900 |
| TOTAL CONTRACT COST | | | | 9,900 |
| TOTAL REQUEST | | | | 9,900 |
| TOTAL REQUEST (ROUNDED) | | | | 9,900 |

10. Description of Proposed Construction: The funds requested will provide for final design of facilities and to achieve full evaluation for each project in terms of technical adequacy and estimated cost. In addition, the funds are required to prepare working drawings, specifications, and project reports for the design of construction projects to be included in future Military Construction Programs.

11. REQUIREMENT: As required.
REQUIREMENT: The FY 94 design funds are needed to design projects for the FY 95 and 96 MILCON program.

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994

APPROPRIATION: MILITARY CONSTRUCTION -- AIR NATIONAL GUARD

PROGRAM 313: PLANNING AND DESIGN $9,900,000

PART I -- PURPOSE AND SCOPE

The funds estimated for this program are to provide financing for project planning and design of the construction requirements for the Air National Guard.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Planning and Design will provide for establishing project construction design of facilities and for achieving a full evaluation of each designed project in terms of technical adequacy and estimated costs.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| ANG | | MAR 1993 |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS (UNSPECIFIED) | UNSPECIFIED MINOR CONSTRUCTION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55296F | 020-000 | AAAA919561 | $4,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNSPECIFIED MINOR CONSTRUCTION | LS | | | 4,000 |
| MINOR CONSTRUCTION | LS | | | ( 4,000) |
| SUBTOTAL | | | | 4,000 |
| TOTAL CONTRACT COST | | | | 4,000 |
| TOTAL REQUEST | | | | 4,000 |
| TOTAL REQUEST (ROUNDED) | | | | 4,000 |

10. Description of Proposed Construction: Provide a lump sum for construction projects not otherwise authorized by law, having a funding of $400,000 or less, including construction, alteration or conversion of permanent or temporary facilities. The Secretary of the Air Force has the authority to approve projects of this nature under the provisions of 10 U. S. C. 2233a.

11. REQUIREMENT: As required.

REQUIREMENT: This program provides the means of accomplishing projects not exceeding $400,000 that are not now identified, but which are anticipated to arise during FY 93 and early FY 94 to satisfy critical, unforeseen mission requirements.

CURRENT SITUATION: During FY 93 ANG will undergo numerous aircraft conversions and beddowns. Many urgent facilities requirements not now identified may need to be done on an urgent basis to support the arrival of new aircraft and equipment. Past records indicate that additional conversion projects are identified by the Site Activation Task Force. This is a management team that arrives on base and conducts a program review to insure a successful and on time aircraft conversion. Unforseen and urgent environmental requirements to meet the state and federal laws are also typical projects that must be accomplished.

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994

APPROPRIATION: MILITARY CONSTRUCTION -- AIR NATIONAL GUARD

PROGRAM 341: UNSPECIFIED MINOR CONSTRUCTION $4,000,000

PART I -- PURPOSE AND SCOPE

The funds estimated for this program are to provide financing for new construction and alteration projects having cost estimates not exceeding $400,000 which are not otherwise authorized by law.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Minor Construction will finance projects for which the justification is such that they should not be included in the regular Military Construction Program for the Air National Guard and such that they exceed the minor construction work authorization in the Operations and Maintenance Appropriation.

FY 1994 Budget Estimates

# AIR FORCE RESERVE

## FY 94 MILITARY CONSTRUCTION PROGRAM

April 1993

*Justification Data Submitted to Congress*

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994**
**MILITARY CONSTRUCTION PROGRAM**

**TABLE OF CONTENTS**

Table of Contents ..... i
FY 1994 Project Listing By State ..... ii
FY 1994 New/Current Mission Listing ..... iv
FY 1994 Real Property Maintenance Projects Over $500,000 ..... v

*SECTION I - BUDGET APPENDIX EXTRACT*

Language ..... b-i
Program and Financing Schedule ..... b-ii
Object Classification Schedule ..... b-ii
Special Program Considerations ..... b-iii

*SECTION 2 - INSTALLATION AND PROJECT JUSTIFICATION DATA*

Major Construction, Air Force Reserve ..... 1
Architectural/Engineering Services and Construction Design ..... 62
Unspecified Minor Construction ..... 64

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM**
**(DOLLARS IN THOUSANDS)**

**MAJOR CONSTRUCTION**

FY 1994 MILITARY CONSTRUCTION STATE LIST

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH AMOUNT | APPROP AMOUNT | DD FORM 1391 PAGE # |
|---|---|---|---|---|
| California | Travis AFB | | | |
| | Alter Reserve Operations and Training Facility | 4,000 | 4,000 | 3 |
| | Aerial Port Training Facility | 3,050 | 3,050 | 5 |
| | SUBTOTAL | 7,050 | 7,050 | |
| Colorado | Peterson AFB | | | |
| | Organizational Maintenance Support Facility | 1,200 | 1,200 | 9 |
| | SUBTOTAL | 1,200 | 1,200 | |
| Florida | MacDill AFB | | | |
| | Aeromedical Evacuation Facility | 750 | 750 | 13 |
| | SUBTOTAL | 750 | 750 | |
| Louisiana | Barksdale AFB | | | |
| | Welding and Machine Shop | 600 | 600 | 17 |
| | SUBTOTAL | 600 | 600 | |
| Maryland | Andrews AFB | | | |
| | Replace Aircraft Parking Apron | 13,373 | 13,373 | 21 |
| | SUBTOTAL | 13,373 | 13,373 | |
| Massachusetts | Westover ARB | | | |
| | Medical Training Facility | 2,600 | 2,600 | 25 |
| | SUBTOTAL | 2,600 | 2,600 | |
| New Mexico | Kirtland AFB | | | |
| | Civil Engineering Training Facility | 900 | 900 | 29 |
| | SUBTOTAL | 900 | 900 | |
| New York | Niagara Falls ARS | | | |
| | Base Communications Center | 1,300 | 1,300 | 33 |
| | SUBTOTAL | 1,300 | 1,300 | |

**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM**
**(DOLLARS IN THOUSANDS)**

**MAJOR CONSTRUCTION**

FY 1994 MILITARY CONSTRUCTION STATE LIST

| STATE/ COUNTRY | INSTALLATION AND PROJECT | AUTH AMOUNT | APPROP AMOUNT | DD FORM 1391 PAGE # |
|---|---|---|---|---|
| Ohio | Youngstown ARS | | | |
| | Widen Aircraft Parking Apron | 1,450 | 1,450 | 37 |
| | SUBTOTAL | 1,450 | 1,450 | |
| Pennsylvania | Greater Pittsburgh ARS | | | |
| | Off Base Firing Range | 1,300 | 1,300 | 41 |
| | Jet Fuel Storage Complex | 4,300 | 4,300 | 44 |
| | SUBTOTAL | 5,600 | 5,600 | |
| Texas | Kelly AFB | | | |
| | RED HORSE Structural/Utility Facility | 2,300 | 2,300 | 48 |
| | SUBTOTAL | 2,300 | 2,300 | |
| Wisconsin | General Mitchell ARS | | | |
| | Add Fire Protection to Aircraft Hangars | 1,500 | 1,500 | 53 |
| | Upgrade Base Fuels Complex | 1,800 | 1,800 | 55 |
| | SUBTOTAL | 3,300 | 3,300 | |
| XX | CONUS Classified | | | |
| | Construct Aircraft Parking Apron | 8,000 | 8,000 | 60 |
| | SUBTOTAL | 8,000 | 8,000 | |
| | TOTAL IN THE UNITED STATES | 48,423 | 48,423 | |
| Worldwide | Arch & Eng Svcs and Const Design | 3,400 | 3,400 | 62 |
| | Unspecified Minor Construction | 3,904 | 3,904 | 64 |
| | **GRAND TOTAL** | **55,727** | **55,727** | |

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM**
**(DOLLARS IN THOUSANDS)**

**MAJOR CONSTRUCTION**

FY 1994 NEW MISSION/CURRENT MISSION LISTING

| LOCATION | PROJECT | COST | NEW/ CURRENT |
|---|---|---|---|
| Travis AFB, CA | Alter Reserve Operations and Training Facility | 4,000 | Current |
| Travis AFB, CA | Aerial Port Training Facility | 3,050 | Current |
| Peterson AFB, CO | Organizational Maintenance Support Facility | 1,200 | Current |
| MacDill AFB, FL | Aeromedical Evacuation Facility | 750 | Current |
| Barksdale AFB, LA | Welding and Machine Shop | 600 | Current |
| Andrews AFB, MD | Replace Aircraft Parking Apron | 13,373 | Current |
| Westover ARB, MA | Medical Training Facility | 2,600 | Current |
| Kirtland AFB, NM | Civil Engineering Training Facility | 900 | Current |
| Niagara Falls ARS, NY | Base Communications Center | 1,300 | Current |
| Youngstown ARS, OH | Widen Aircraft Parking Apron | 1,450 | Current |
| Greater Pittsburgh ARS, PA | Off Base Firing Range | 1,300 | Current |
| Greater Pittsburgh ARS, PA | Jet Fuel Storage Complex | 4,300 | Current |
| Kelly AFB, TX | RED HORSE Structural/Utility Facility | 2,300 | Current |
| Gen Mitchell ARS, WI | Add Fire Protection to Aircraft Hangars | 1,500 | Current |
| Gen Mitchell ARS, WI | Upgrade Base Fuels Complex | 1,800 | Current |
| AFR 51 - CONUS Classified | Construct Aircraft Parking Apron | 8,000 | New |
| | TOTAL | 48,423 | |
| | Subtotals | | |
| | New Mission | 8,000 | |
| | Current Mission | 40,423 | |
| | Arch & Eng Svcs and Const Design | 3,400 | |
| | Unspecified Minor Construction | 3,904 | |
| | **GRAND TOTAL** | **55,727** | |

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM - FY 1994**
**REAL PROPERTY MAINTENANCE ACTIVITIES**

Real Property Maintenance and Repair Projects
Estimated to Cost More Than $500,000

| STATE | INSTALLATION | PROJECT TITLE | EST COST ($000) |
|---|---|---|---|
| Illinois | O'Hare ARS | Basewide Asbestos Containing Material Repair | 1,836 |

Project conducts a basewide asbestos abatement program. The basewide asbestos survey identified 14 buildings containing friable and damaged asbestos. This project provides for the removal of the asbestos containing material and replacement with material that will not pose a health hazard. This project complies with AFR 19-42.

| | | | |
|---|---|---|---|
| Massachusetts | Westover ARB | Repair Roof, Hangar 1 | 634 |

Project repairs by replacement the Hangar 1 roof to correct leaking caused by serious deterioration of the existing roof. The project will provide for new decking, underlayment, flashing and 63,000 square feet of EPDM.

## SECTION 1
## BUDGET APPENDIX EXTRACT

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM**

FY 1994 APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE RESERVE

For acquisition, construction, expansion, rehabilitation and conversion of facilities for the training, administration and operation of the Air Force Reserve, and contribution therefore, as authorized by Chapter 133 of Title 10, United States Code, and military construction acts, $55,727,000 ($29,900,000) to remain available until 30 September 1998 (30 September 1997).

( ) indicates Fiscal Year 1993 appropriation

Mil. Con., Air Force Reserve
Program and Financing (In Thousands of dollars) Summary — 12 MAR 93

| Identification code 57-3730-0-1-051 | Budget Plan (Amounts for MILITARY CONSTRUCTION actions programed) 1992 Actual | 1993 Est | 1994 Est | 1995 Est | Obligations 1992 Actual | 1993 Est | 1994 Est | 1995 Est |
|---|---|---|---|---|---|---|---|---|
| Program by activities: | | | | | | | | |
| Direct program: | | | | | | | | |
| 00.0101 Major Construction | 2,700 | 22,700 | 48,423 | 30,580 | 20,299 | 28,850 | 40,078 | 32,967 |
| 00.0201 Minor Construction | 2,200 | 4,400 | 3,904 | 4,018 | 3,324 | 5,392 | 3,963 | 3,339 |
| 00.0801 Planning | 4,800 | 2,800 | 3,400 | 2,900 | 2,979 | 3,281 | 4,504 | 4,859 |
| 10.0001 Total | 9,700 | 29,900 | 55,727 | 37,498 | 26,602 | 37,523 | 48,585 | 41,165 |
| Financing: | | | | | | | | |
| 17.020 RECOV PY BAL OP | | | | | -20 | | | |
| Unobligated balance available, start of year: | | | | | | | | |
| 21.4002 For completion of prior year budget plans | | | | | | | | |
| 21.020 UNOB ST, NEWPLAN | | | | | -63,086 | -45,647 | -38,024 | -45,186 |
| 21.4007 Reprogramming from/to prior year budget plans | | | | | | | | |
| 23.4002 Reduction pursuant to P.L. 99-177 in unoblig bal: Apn | | | | | | | | |
| Unobligated balance available, end of year: | | | | | | | | |
| 24.4002 For completion of prior year budget plans | | | | | 45,647 | 38,024 | 45,186 | 41,519 |
| 25.010 Lapes, UBAL | | | | | -537 | | | |
| 25.0001 Unobligated balance lapsing | | | | | | | | |
| 39.020 P&FC ROUNDS, OP | | | | | | | | |
| 40.0001 Budget authority (Appropriation) | | | | | 9,700 | 29,900 | 55,727 | 37,498 |
| Relation of obligations to outlays: | | | | | | | | |
| 72.110 UNPAID OB, SOY | | | | | 35,978 | 22,850 | 31,264 | 32,614 |
| 71.0001 Obligations incurred, net | | | | | 26,602 | 37,523 | 48,585 | 41,165 |
| 77.110 OBLIG ADJUSTMNT | | | | | 420 | | | |
| 78.110 OBLIG AJUSTMNT | | | | | -20 | | | |
| 90.110 PAYMNT CY PROG | | | | | | 2,098 | 3,901 | 2,625 |
| 90.111 PAYMNT PY PROG | | | | | 40,130 | 27,016 | 43,314 | 45,782 |
| OUTLAYS | | | | | 40,130 | 29,109 | 47,215 | 48,407 |
| 74.110 UNPAID OBL, EOY | | | | | 22,850 | 31,264 | 32,614 | 25,372 |

Mil. Con., Air Force Reserve
Object Classification (In Thousands of dollars) Summary — 12 MAR 93

| Identification code 57-3730-0-1-051 | 1992 Actual | 1993 Est | 1994 Est | 1995 Est |
|---|---|---|---|---|
| Direct obligations: | | | | |
| Other services: | | | | |
| 125.003 Contracts | 119 | 297 | 483 | 396 |
| 132.001 Land and structures | 3,462 | 2,518 | 2,831 | 2,461 |
| 199.001 Total Direct Obligations | 3,581 | 2,815 | 3,314 | 2,857 |
| Allocation Accounts | | | | |
| Other services: | | | | |
| 325.003 Contracts | 2,860 | 5,630 | 8,258 | 8,778 |
| 322.001 Land Structures | 20,161 | 29,078 | 36,999 | 31,530 |
| 399.001 Total Allocation Accounts | 23,021 | 34,708 | 45,251 | 39,308 |
| 999.901 Total obligations | | | | |
| Obligations are distributed as follows: | | | | |
| Defense - Military: Army | 19,824 | 27,955 | 36,191 | 30,677 |
| Defense - Military: Navy | 3,197 | 4,503 | 5,837 | 4,948 |
| Defense - Military: Air Force | 3,581 | 5,085 | 6,537 | 5,540 |
| | 26,602 | 37,523 | 48,585 | 41,165 |

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**MILITARY CONSTRUCTION PROGRAM - FISCAL YEAR 1994**

## SPECIAL PROGRAM CONSIDERATIONS

### Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective action is accomplished in accordance with applicable standards and criteria.

### Energy Conservation

Military Construction projects specifically designed for energy conservation at installations have been developed, reviewed and selected with prioritization by energy savings per investment costs. Projects include improvements to existing facilities and utility systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

### Floodplain Management and Wetlands Protection

Proposed land acquisitions, disposals and installation construction projects have been planned to allow for the proper management of flood plains and protection of wetlands by avoiding long term impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11990.

### Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 900-400, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

### Preservation of Historical Sites and Structures

Facilities in this program do not directly or indirectly affect any district, site, building, structure, object or setting listed in the National of Historic Places, except as noted on DD Form 1391.

### Environmental Protection

In accordance with Section 102(2)(c) of the National Environmental Protection Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in this Military Construction Program.

### Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects included in this program represent the most economical use of resources.

Reserve Manpower Potential

The Reserve manpower potential to meet and maintain authorized strengths of all Reserve flying/non-flying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other services having Reserve flying/non-flying units in these areas, that the number of units of the Reserve components of the Armed Forces presently located in these areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that can reasonably be expected to be maintained at authorized strength levels considering the number of persons living in these areas who are qualified for membership in those Reserve units.

Potential Use of Vacant Schools & Other State & Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Congressional Reporting Requirements

Page vi, titled "New Mission/Current Mission Listing", is in response to a Senate Appropriations Committee requirement contained on page 10 (New and Current Mission Activities) of Report #100-380.

Page b-v, titled "Maintenance and Repair Budget Request", is in response to a Senate Appropriations Committee requirement contained on page 24 (Non-MILCON Construction Activities), Senate and House Conference Report #100-498. In response to another item of this reporting requirement, the Air Force Reserve has no "separate construction project to be accomplished with funds other than family housing and military construction appropriations."

Unless other noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

Resolution Trust Corporation Real Estate Assets

In accordance with guidance contained in Senate Report 101-384, page 282, the Air Force Reserve is in the process of screening Fiscal Year 1993 construction requirements against the Resolution Trust Corporation (RTC) real estate asset inventory.

## SECTION 2
## PROJECT JUSTIFICATION DATA

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

4. AREA CONSTR COST INDEX: 1.37

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 171-445 | Alter Reserve Operations and Training Facility | 63,000 SF | 4,000 | 4/92 | 12/92 |
| 171-873 | Aerial Port Training Facility | 18,000 SF | 3,050 | 7/92 | 6/93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction. — 9 Apr 92/17 Mar 93 (Date)

9. LAND ACQUISITION REQUIRED

NONE — NONE (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

**3. INSTALLATION AND LOCATION**

TRAVIS AIR FORCE BASE, CALIFORNIA

**11. PERSONNEL STRENGTH AS OF**

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 29 | 0 | 0 | 29 | 451 | 30 | 421 |
| ACTUAL | 29 | 0 | 0 | 29 | 451 | 30 | 421 |

**12. RESERVE UNIT DATA**

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 349th Airlift Wing (Asso.) | 40 | 40 |
| 45th Aerial Port Squadron (Asso.) | 198 | 198 |
| 82nd Aerial Port Squadron (Asso.) | 213 | 213 |
| TOTAL | 451 | 451 |

**13. MAJOR EQUIPMENT AND AIRCRAFT**

NONE

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | ALTER RESERVE OPERATIONS AND TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 171-445 | XDAT943017 | 4,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ALTER RESERVE OPERATIONS AND TRAINING FACILITY | SF | 63,000 | 54 | 3,402 |
| SUPPORTING FACILITIES | | | | 45 |
| UTILITIES | LS | | | ( 25) |
| PAVEMENTS | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 3,447 |
| CONTINGENCY (10%) | | | | 345 |
| TOTAL CONTRACT COST | | | | 3,792 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 228 |
| TOTAL REQUEST | | | | 4,020 |
| TOTAL REQUEST (ROUNDED) | | | | 4,000 |

10. Description of Proposed Construction: Replace roof, exterior closures and siding. Remove asbestos. Repair plumbing, re-wire, and change interior room arrangement. Replace heating system and repair air conditioning system. Replace ceiling, floor tile and carpeting. Provide handicap access. Landscape.
Air Conditioning: 94 Tons.

11. REQUIREMENT: 63,340 SF ADEQUATE: 21,908 SF SUBSTANDARD: 52,267 SF
PROJECT: General repair of exterior/interior finishes of walls and doors. Landscape. Alter/modify interior to accomodate the operations functions. (Current Mission)
REQUIREMENT: Provide a more functional, safe and adequate facility in which the reserve training mission can be performed.
CURRENT SITUATION: The facility was constructed in 1946 as an enlisted barracks. Heavy usage and age have degraded structural, mechanical, and electrical components. Furnaces are old, inefficient, and difficult to repair due to non-availability of parts. Major portions of the facility have been air conditioned using a combination of central and window units. The uncomfortable surroundings create an unsafe, inefficient, and ineffective training environment.
IMPACT IF NOT PROVIDED: Training will remain degraded, resulting in reduced proficiency, morale, and retention of aircrews and support personnel. The unit's ability to fully augment to active force will be decreased.
ADDITIONAL: Replacement cost information - Repair costs are approximately 44% of the cost to construct a new, replacement facility.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ALTER RESERVE OPERATIONS AND TRAINING FACILITY | XDAT943017 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 APR 23 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 MAY 23 |
| (d) Date Design Complete | 92 DEC 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 75 |
| (b) All Other Design Costs | |
| (c) Total | 75 |
| (d) Contract | 65 |
| (e) In-house | 10 |
| (4) Construction Start | 94 MAY |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| TRAVIS AIR FORCE BASE, CALIFORNIA | AERIAL PORT TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 171-873 | XDAT949001 | 3,050 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AERIAL PORT TRAINING FACILITY | SF | 18,000 | 150 | 2,700 |
| SUPPORTING FACILITIES | | | | 55 |
| UTILITIES | LS | | | ( 40) |
| PAVEMENTS | LS | | | ( 10) |
| SITE IMPROVEMENTS | LS | | | ( 5) |
| SUBTOTAL | | | | 2,755 |
| CONTINGENCY (5%) | | | | 138 |
| TOTAL CONTRACT COST | | | | 2,893 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 174 |
| TOTAL REQUEST | | | | 3,067 |
| TOTAL REQUEST (ROUNDED) | | | | 3,050 |

10. Description of Proposed Construction: Masonry walls, concrete foundation and floor slab, steel frame and built-up roof.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 18,000 SF ADEQUATE: 0 SUBSTANDARD: 8,512 SF

PROJECT: Construct a new aerial port training facility to provide training, operational and administrative space for six (6) aerial port squadrons. (Current Mission)

REQUIREMENT: An adequate facility is required for training reserve mobile aerial port squadron personnel in the processing and build-up of aircraft cargo loads for mobility, transport and airdrop missions; thus providing additional airlift resources to the active force under activation conditions.

CURRENT SITUATION: Since initially occupying the current facility the organization has grown increasing the number of personnel. The existing building provides an inefficient and ineffective training environment. The existing occupied space is unsuitable and substandard.

IMPACT IF NOT PROVIDED: Continued operation in this existing substandard facility will adversely impact training and morale.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AERIAL PORT TRAINING FACILITY | XDAT949001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JUL 15 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 SEP 30 |
| (d) | Date Design Complete | 93 JUN 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 240 |
| (b) | All Other Design Costs | |
| (c) | Total | 240 |
| (d) | Contract | 240 |
| (e) | In-house | |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| PETERSON AIR FORCE BASE, COLORADO | 0.96 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

Fort Carson
Falcon Air Force Base

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 211-154 | Organizational Maintenance Support Facility | 8,400 SF | 1,200 | 8/92 | 4/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION** — 16 Mar 93 *(Date)*

Approved for unilateral construction.

**9. LAND ACQUISITION REQUIRED** — NONE *(Number of Acres)*

NONE

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 5 | 0 | 0 | 5 | 13 | 0 | 13 |
| ACTUAL | 5 | 0 | 0 | 5 | 13 | 0 | 13 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 302 Consolidated Aircraft Maintenance Squadron (Survival Equipment Only) | 8 | 8 |
| 731 Tactical Airlift Squadron | 5 | 5 |
| TOTAL | 13 | 13 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130B | 16 | 16 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| PETERSON AIR FORCE BASE, COLORADO | ORGANIZATIONAL MAINTENANCE SUPPORT FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 211-154 | TDKA929202 | 1,200 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ORGANIZATIONAL MAINTENANCE SUPPORT FACILITY | SF | 8,400 | 110 | 924 |
| SUPPORTING FACILITIES | | | | 170 |
| UTILITIES | LS | | | ( 25) |
| PAVEMENTS | LS | | | ( 120) |
| SITE IMPROVEMENTS | LS | | | ( 25) |
| SUBTOTAL | | | | 1,094 |
| CONTINGENCY (5%) | | | | 55 |
| TOTAL CONTRACT COST | | | | 1,149 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 69 |
| TOTAL REQUEST | | | | 1,218 |
| TOTAL REQUEST (ROUNDED) | | | | 1,200 |

10. Description of Proposed Construction: Site preparation, utilities, and paving; reinforced concrete stem system wall and slab foundation; structural steel frame and metal roof; brick and metal siding exterior walls; concrete block and drywall interior walls; metal and wood doors and frames; aluminum windows; miscellaneous finishes; toilets, locker rooms and plumbing, mechanical, and electrical.
Air Conditioning: 5 Tons.

11. REQUIREMENT: 8,400 SF ADEQUATE: 0 SUBSTANDARD: 6,227 SF
PROJECT: Construct addition to existing Maintenance Inspection Hangar to serve as an Aircraft Organizational Maintenance facility. (Current Mission)
REQUIREMENT: The 302 CAMS needs adequate space for its Organizational Maintenance function to be used by 116 personnel. The new facility will include space for Management Support, Computer Room, Flight line, Inspection Support functions and Support Equipment Shop storage area. Other Support Equipment space will be used to store fire suppression spray equipment. Class rooms will be required as well as a paved parking lot for 100 cars.
CURRENT SITUATION: At present, personnel are required to operate in a modular building that is designated for demolition. Because of inadequate space the unit is forced to split their functions and work out of two locations.
IMPACT IF NOT PROVIDED: If this building addition is not constructed, the 302nd CAMS Organizational Maintenance function will continue to operate in a facility that has less than adequate space for its personnel, which has a negative impact on training Reservists and cannot efficiently support the maintenance required by the flying mission.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ORGANIZATIONAL MAINTENANCE SUPPORT FACILITY | TDKA929202 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 AUG 09 |
| (b) Percent Complete as of Jan 93 | | 65% |
| (c) Date 35% Designed | | 92 NOV 17 |
| (d) Date Design Complete | | 93 APR 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 139 |
| (b) All Other Design Costs | | |
| (c) Total | | 139 |
| (d) Contract | | 108 |
| (e) In-house | | 31 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| MACDILL AIR FORCE BASE, FLORIDA | 0.94 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies area two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

2 Army Installations
1 Coast Guard Air Station
1 Air National Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 171-449 | Reserve Forces Aeromedical Evacuation | 5,700 SF | 750 | 4/92 | 1/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION**

23 JAN 92 *(Date)*

Approved for unilaterial construction.

**9. LAND ACQUISITION REQUIRED**

NONE *(Number of Acres)*

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

MACDILL AIR FORCE BASE, FLORIDA

11. PERSONNEL STRENGTH AS OF 31 MAR 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 16 | 0 | 0 | 16 | 402 | 79 | 323 |
| ACTUAL | 11 | 0 | 0 | 11 | 384 | 77 | 307 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 37th Aeromedical Evacuation Group | 402 | 384 |

13. MAJOR EQUIPMENT AND AIRCRAFT

NONE

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| NONE | | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| MACDILL AIR FORCE BASE, FLORIDA | AEROMEDICAL EVACUATION FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 171-449 | NVZR870503 | 750 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| AEROMEDICAL EVACUATION FACILITY | SF | 5,400 | 100 | 540 |
| SUPPORTING FACILITIES | | | | 135 |
| ELECTRICAL | LS | | | ( 15) |
| PLUMBING | LS | | | ( 15) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 10) |
| DEMOLITION | LS | | | ( 10) |
| PARKING | SP | 50 | 1,000 | ( 50) |
| FLAMMABLE STORAGE FACILITY | SF | 300 | 50 | ( 15) |
| SUBTOTAL | | | | 675 |
| CONTINGENCY (5%) | | | | 34 |
| TOTAL CONTRACT COST | | | | 709 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 43 |
| TOTAL REQUEST | | | | 752 |
| TOTAL REQUEST (ROUNDED) | | | | 750 |

10. Description of Proposed Construction: Construct a facility with concrete foundation and floor slab, extruded CMU block and metal standing seam roof to match existing base construction. Project includes demolition of two small storage buildings, and construction of a new flammable storage building. Also includes 50 parking spaces and utilities necessary to support the primary facility.
Air Conditioning: 14 Tons.

11. REQUIREMENT: 21,668 SF ADEQUATE: 15,968 SF SUBSTANDARD: 560 SF
PROJECT: Construct a new facility to provide adequate space for communication and mobility training, equipment maintenance, and storage. (Current Mission)
REQUIREMENT: Project is required to overcome current space deficiencies and accomodate a 30 percent growth in authorized manning and equipment. Includes classerooms, administrative area, a radio maintenance shop, and communication and mobility equipment storage areas. A roof-mounted linear antenna is required.
CURRENT SITUATION: Radio maintenance personnel work in an overcrowed area. No space exists in the Reserve area of the base for proper storage. Mobility equipment exceeds available storage space.
IMPACT IF NOT PROVIDED: Lack of adequate training, administrative and storage space will continue to have a negative impact on the efficiency and effectiveness of training and will ultimately degrade the capability of the unit to perform its wartime mission.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

MACDILL AIR FORCE BASE, FLORIDA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| AEROMEDICAL EVACUATION FACILITY | NVZR870503 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 APR 15 |
| (b) Percent Complete as of Jan 93 | | 100% |
| (c) Date 35% Designed | | 92 SEP 10 |
| (d) Date Design Complete | | 93 JAN 01 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 130 |
| (b) All Other Design Costs | | |
| (c) Total | | 130 |
| (d) Contract | | |
| (e) In-house | | 130 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | 0.86 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

Army Reserve Unit
Army National Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 211-152 | Welding and Machine Shop | 5,200 SF | 600 | 1/92 | 3/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION** — 15 Mar 93 *(Date)*

Approved for unilaterial construction.

**9. LAND ACQUISITION REQUIRED**
NONE — NONE *(Number of Acres)*

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

11. PERSONNEL STRENGTH AS OF 31 MAR 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 22 | 0 | 0 | 22 | 1027 | 127 | 900 |
| ACTUAL | 22 | 0 | 0 | 22 | 966 | 107 | 859 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 917th Fighter Wing | 1027 | 966 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| A-10A | 33 | 44 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| BARKSDALE AIR FORCE BASE, LOUISIANA | WELDING AND MACHINE SHOP |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 211-152 | AWUB919801 | 600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WELDING AND MACHINE SHOP | SF | 5,200 | 99 | 515 |
| SUPPORTING FACILITIES | | | | 25 |
| UTILITIES | LS | | | ( 10) |
| PAVEMENTS | LS | | | ( 5) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 540 |
| CONTINGENCY (5%) | | | | 27 |
| TOTAL CONTRACT COST | | | | 567 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 34 |
| TOTAL REQUEST | | | | 601 |
| TOTAL REQUEST (ROUNDED) | | | | 600 |

10. Description of Proposed Construction: Reinforced concrete foundation and slab on grade floor. CMU walls, steel fame and standing seam roof system. Extend and connect utilities. Provide fire protection system. Air Conditioning: 2 Tons.

11. REQUIREMENT: 5,200 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a 5200 SF welding and machine shop. (Current Mission)
REQUIREMENT: To provide adequate facilities to train Reserve maintenance personnel and provide adequate welding/machine shop support for the aasigned A-10 aircraft.
CURRENT SITUATION: The present joint-use facility (960 SF) does not provide adequate space for the shop functions. Jet engines and aircraft support equipment are welded outside, in a fire lane, which violates safety codes and exposes pedestrian traffic to arc and gas welding dangers. Current inside shop area does not provide space for appropriate equipment and violates minimum distance criteria from operating machinery.
IMPACT IF NOT PROVIDED: Unit personnel will continue to be exposed to health and safety hazards. The unit's ability to train maintenance personnel and support the flying mission will deteriorate.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WELDING AND MACHINE SHOP | AWUB919801 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 92 JAN 03 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 FEB 03 |
| (d) Date Design Complete | 93 MAR 15 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e): ($000)

(a) Production of Plans and Specifications
(b) All Other Design Costs
(c) Total
(d) Contract
(e) In-house

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | 1.05 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

Naval Reserve Unit
Air National Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 113-321 | Replace Aircraft Parking Apron | 94,000 SY | 13,373 | 5/92 | 7/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION**

Approved for unilateral construction via telephonic Board Meeting per OSD(RA).

12 Mar 93
*(Date)*

**9. LAND ACQUISITION REQUIRED**

NONE

NONE
*(Number of Acres)*

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 247 | 0 | 4 | 243 | 1,091 | 150 | 941 |
| ACTUAL | 236 | 0 | 4 | 232 | 1,107 | 160 | 947 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 459 Airlift Wing | 1,091 | 1,107 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-141B | 8 | 8 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| ANDREWS AIR FORCE BASE, MARYLAND | REPLACE AIRCRAFT PARKING APRON |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 113-321 | AJXF929001 | 13,373 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| REPLACE AIRCRAFT PARKING APRON | SY | 94,000 | 115 | 10,810 |
| SUPPORTING FACILITIES | | | | 660 |
| PAVEMENTS | LS | | | ( 620) |
| STORM DRAINAGE | LS | | | ( 40) |
| SUBTOTAL | | | | 11,470 |
| CONTINGENCY (10%) | | | | 1,147 |
| TOTAL CONTRACT COST | | | | 12,617 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 757 |
| TOTAL REQUEST | | | | 13,374 |
| TOTAL REQUEST (ROUNDED) | | | | 13,373 |

10. Description of Proposed Construction: Replace existing apron with thicker portland cement concrete to support medium load aircraft.

11. REQUIREMENT: 94,000 SY ADEQUATE: 0 SUBSTANDARD: 94,000 SY

PROJECT: Upgrade the AFRES parking apron by replacing the existing pavement to support continued strategic airlift operations. (Current Mission).

REQUIREMENT: Provide a portland concrete cement apron appropriate to support sustained operations of C-141B aircraft.

CURRENT SITUATION: The pavement on the Reserve ramp was originally designed for C-130 operations. Since the Reserve airlift unit converted to eight C-141B aircraft the pavement has rapidly deteriorated. A survey by the Air Force Pavement Evaluation Team determined that the existing pavement is seriously under strength and will not support continued operations by the assigned aircraft. The existing pavement is breaking up and creating a serious FOD hazard to operations.

IMPACT IF NOT PROVIDED: Air Force personnel and aircraft will be exposed to increasingly severe levels of risk with the potential for catastrophic damage.

ADDITIONAL: This project complies with the scope and design criteria of the Construction Manual 4270.0-M effective 1 Jan 87.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| REPLACE AIRCRAFT PARKING APRON | AJXF929001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 MAY 04 |
| (b) | Percent Complete as of Jan 93 | 65% |
| (c) | Date 35% Designed | 92 SEP 18 |
| (d) | Date Design Complete | 93 JUL 23 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 230 |
| (b) | All Other Design Costs | 30 |
| (c) | Total | 260 |
| (d) | Contract | |
| (e) | In-house | 260 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| WESTOVER AIR FORCE BASE, MASSACHUSETTS | 1.16 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facilities are used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

1 Army Gaurd Unit
1 Naval Reserve Unit
1 Air National Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 171-443 | Medical Training Facility | 16,000 SF | 2,600 | 1/92 | 3/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION** — 15 Mar 93 *(Date)*

Approved for unilateral construction.

**9. LAND ACQUISITION REQUIRED** — NONE *(Number of Acres)*

NONE

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| 411-135 | UST Upgrade Basewide | 20 EA | 1,000 | 95 |
| 112-211 | Replace Taxiway "G" | LS | 5,100 | 95 |
| 411-135 | Jet Fuel Storage | 10,000 BL | 2,450 | 96 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

WESTOVER AIR FORCE BASE, MASSACHUSETTS

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 13 | 0 | 0 | 13 | 249 | 94 | 150 |
| ACTUAL | 15 | 0 | 0 | 15 | 255 | 94 | 161 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 74 Aeromedical Evacuation Squadron | 150 | 161 |
| 439 USAF Clinic | 99 | 94 |
| TOTAL | 249 | 255 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-5A | 14 | 16 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| WESTOVER AIR RESERVE BASE, MASSACHUSETTS | MEDICAL TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 171-443 | YTPM929001 | 2,600 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| MEDICAL TRAINING FACILITY | SF | 16,000 | 120 | 1,920 |
| SUPPORTING FACILITIES | | | | 405 |
| UTILITIES | LS | | | ( 125) |
| TRANSFORMER | LS | | | ( 60) |
| EMERGENCY POWER | LS | | | ( 15) |
| SECURITY/EXTERIOR LIGHTING | LS | | | ( 15) |
| COMMUNICATIONS | LS | | | ( 10) |
| DEMOLITION (BUILDING) | LS | | | ( 60) |
| SITE IMPROVEMENTS/PAVEMENTS | LS | | | ( 95) |
| HOLDING TANK (DECONTAMINATION) | LS | | | ( 25) |
| SUBTOTAL | | | | 2,325 |
| CONTINGENCY (5%) | | | | 116 |
| TOTAL CONTRACT COST | | | | 2,441 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 146 |
| TOTAL REQUEST | | | | 2,587 |
| TOTAL REQUEST (ROUNDED) | | | | 2,600 |

10. Description of Proposed Construction: Construct a medical training facility consisting of all structural, mechanical, electrical, plumbing, and masonry necessary to provide a complete functional facility.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 16,000 SF ADEQUATE: 0 SUBSTANDARD: 11,307 SF
PROJECT: Provide a facility for the AFRES host base medical support squadron. The facility includes space for administrative, examination, training clinics, storage, and mechanical space. (Current Mission)
REQUIREMENT: The C-5A conversion requires an additional 40-50 medical personnel to support the increased size of the wing. This severely stresses the ability of the medical personnel to function efficiently in the existing building.
CURRENT SITUATION: The original wooden structure built in 1953, and the concrete masonry addition built in 1963 does not accommodate the new mission. It will be demolished following the occupancy of this new facility.
IMPACT IF NOT PROVIDED: The doubling of personnel creates impossible conditions within this deteriorated and outdated facility, and the C-5A missions will continue to be compromised.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

WESTOVER AIR RESERVE BASE, MASSACHUSETTS

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| MEDICAL TRAINING FACILITY | YTPM929001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 92 JAN 08 |
| (b) | Percent Complete as of Jan 93 | 95% |
| (c) | Date 35% Designed | 92 AUG 14 |
| (d) | Date Design Complete | 93 MAR 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 400 |
| (b) | All Other Design Costs | |
| (c) | Total | 400 |
| (d) | Contract | 55 |
| (e) | In-house | 345 |
| (4) | Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

4. AREA CONSTR COST INDEX: 0.92

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 171-443 | Civil Engineering Training Facility | 6,600 SF | 900 | 4/89 | 11/92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION — 28 Jan 93 (Date)

Approved for unilateral construction.

9. LAND ACQUISITION REQUIRED — NONE (Number of Acres)

NONE

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 2 | 0 | 0 | 2 | 125 | 6 | 119 |
| ACTUAL | 3 | 0 | 0 | 3 | 125 | 6 | 119 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 925 Civil Engineering Squadrom | 125 | 125 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| NONE | | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KIRTLAND AIR FORCE BASE, NEW MEXICO | CIVIL ENGINEERING TRAINING FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 171-443 | MHMV919000 | 900 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CIVIL ENGINEERING TRAINING FACILITY | SF | 6,600 | 98 | 647 |
| SUPPORTING FACILITIES | | | | 160 |
| UTILITIES | LS | | | ( 90) |
| PREWIRING | LS | | | ( 20) |
| PAVEMENTS | LS | | | ( 30) |
| SITE IMPROVEMENTS | LS | | | ( 20) |
| SUBTOTAL | | | | 807 |
| CONTINGENCY (5%) | | | | 40 |
| TOTAL CONTRACT COST | | | | 847 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 51 |
| TOTAL REQUEST | | | | 898 |
| TOTAL REQUEST (ROUNDED) | | | | 900 |

10. Description of Proposed Construction: Construction consists of concrete foundation and floor slab, masonry walls, concrete and steel roof. Work includes all supporting utilities, pavements, and mechanical/electrical space. Evaporative cooling will be used.

11. REQUIREMENT: 6,600 SF ADEQUATE: 0 SUBSTANDARD: 4,342 SF
PROJECT: Construct a civil engineering training facility (Current Mission).
REQUIREMENT: An adequately sized and functionally configured facility is required to provide training classrooms, mobility storage, operations area and administrative space.
CURRENT SITUATION: The 925th Civil Engineering Squadron currently occupies a deficient quonset hut warehouse. The facility has inadequate climate control and ventilation making the environment completely unsuitable for training. Mobility storage space and areas to hold squadron training sessions is non-existant. The building cannot be upgraded to meet the needs of the unit. It will be returned to the base upon completion of this project.
IMPACT IF NOT PROVIDED: Lack of an adequate facility will hinder effective training and have a negative impact on the unit's readiness capability. The unit will not be able to safely secure its mission essential mobility equipment.
ADDITIONAL: This project complies with the scope and design criteria of the Construction Manual 4270.1-M effective 1 Jan 87.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CIVIL ENGINEERING TRAINING FACILITY | MHMV919000 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 89 APR 01 |
| (b) | Percent Complete as of Jan 93 | 90% |
| (c) | Date 35% Designed | 91 APR 01 |
| (d) | Date Design Complete | 92 NOV 01 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | NO |
| (b) | Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 31 |
| (b) | All Other Design Costs | 178 |
| (c) | Total | 209 |
| (d) | Contract | 31 |
| (e) | In-house | 178 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| NIAGARA FALLS IAP - AIR RESERVE STATION, NEW YORK | 1.04 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

Air National Guard
Army National Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 113-111 | Base Communication Center | 7,000 SF | 1,300 | 6/92 | 1/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION** — 18 Nov 92 *(Date)*

Approval for unilateral contruction pending

**9. LAND ACQUISITION REQUIRED** — NONE *(Number of Acres)*

NONE

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| 211-179 | Fuel Systems Maintenance Hangar | 24,400 | 4,800 | 95 |
| 211-159 | Corrosion Control Facility | 2,700 | 700 | 95 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

NIAGARA FALLS INTERNATIONAL AIRPORT - AIR RESERVE STATION, NEW YORK

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 18 | 0 | 0 | 18 | 61 | 2 | 59 |
| ACTUAL | 16 | 0 | 0 | 16 | 43 | 1 | 42 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 914th Communication Squadron | 61 | 43 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| NONE | | |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| NIAGARA FALLS INTERNATIONAL AIRPORT, NY | BASE COMMUNICATIONS CENTER |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 131-111 | RVKQ919002 | 1,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| BASE COMMUNICATIONS CENTER | SF | 7,000 | 150 | 1,050 |
| SUPPORTING FACILITIES | | | | 135 |
| UTILITIES | LS | | | ( 100) |
| PAVEMENTS | LS | | | ( 25) |
| SITE IMPROVEMENTS | LS | | | ( 10) |
| SUBTOTAL | | | | 1,185 |
| CONTINGENCY (5%) | | | | 59 |
| TOTAL CONTRACT COST | | | | 1,244 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 75 |
| TOTAL REQUEST | | | | 1,319 |
| TOTAL REQUEST (ROUNDED) | | | | 1,300 |

10. Description of Proposed Construction: Masonry bearing wall structure with brick veneer, slab-on-grade, reinforced concrete foundation, sloped roof with asphalt shingles, all utilities and necessary support.
Air Conditioning: 40 Tons.

11. REQUIREMENT: 7,000 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a facility for the Base Communications Center and Data Processing. (Current Mission)
REQUIREMENT: An adequately sized facility of proper configuration is required to house collateral functions now located in two facilities. These functions will be incorporated into one building.
CURRENT SITUATION: The existing facilities are inadequate to support the function and lack space for storage and supplies. Data Processing is being displaced by the installation of the Base Integrated Digital Distribution System (BIDDS) equipment. This base has been identified as a priority base for procurement and installation of a replacement for the current analog switch equipment which is operating near full capacity.
IMPACT IF NOT PROVIDED: The functions affected by this consolidation will remain in inefficient facilities which lack adequate space. A severe shortage of space and inadequate facilities will continue to degrade the ability to operate effectively. Installation of the BIDDS equipment cannot be accomplished until the space is vacated.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

NIAGARA FALLS INTERNATIONAL AIRPORT, NY

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| BASE COMMUNICATIONS CENTER | RVKQ919002 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 JUL 25 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 92 OCT 01 |
| (d) Date Design Complete | 93 JAN 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 70 |
| (b) All Other Design Costs | 107 |
| (c) Total | 177 |
| (d) Contract | 104 |
| (e) In-house | 73 |
| (4) Construction Start | 94 JAN |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

YOUNGSTOWN MPT - AIR RESERVE STATION, OHIO

4. AREA CONSTR COST INDEX: 0.99

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

Naval Reserve Unit
Army Reserve Unit
Army National Guard Unit
Marine Coprs REserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 113-321 | Widen Aircraft Parking Apron | 11,500 SY | 1,450 | 1/90 | 1/92 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION — 10 JUN 92 (Date)

Re-Approved for unilateral contruction.

9. LAND ACQUISITION REQUIRED — NONE (Number of Acres)

NONE

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| 880-233 | AFFF System | 2 EA | 1,250 | 98 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

YOUNGSTOWN MUNICIPAL AIRPORT - AIR RESERVE STATION, OHIO

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 360 | 2 | 3 | 355 | 1020 | 131 | 889 |
| ACTUAL | 345 | 2 | 3 | 340 | 1075 | 131 | 944 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 910th Airlift Group | 1020 | 1075 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H | 8 | 8 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| YOUNGSTOWN MUNICIPAL AIRPORT - AIR RESERVE STATION, OHIO | WIDEN AIRCRAFT PARKING APRON |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 113-321 | ZQEL929001 | 1,450 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| WIDEN AIRCRAFT PARKING APRON | SY | 11,500 | 100 | 1,150 |
| SUPPORTING FACILITIES | | | | 170 |
| TAXIWAY LIGHTING | LF | 1,500 | 57 | ( 85) |
| STORM DRAINAGE | LS | | | ( 15) |
| DEMOLITION/UTILITIES RELOCATION | LS | | | ( 30) |
| SITE IMPROVEMENT | LS | | | ( 30) |
| PAVEMENT MARKINGS | LS | | | ( 10) |
| SUBTOTAL | | | | 1,320 |
| CONTINGENCY (5%) | | | | 66 |
| TOTAL CONTRACT COST | | | | 1,386 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 83 |
| TOTAL REQUEST | | | | 1,469 |
| TOTAL REQUEST (ROUNDED) | | | | 1,450 |

10. Description of Proposed Construction: Concrete apron with non-frost susceptible aggregate base and elastomeric joint sealant. Work includes taxiway lighting, drainage, pavement demolition, water main and hydrant relocation, pavement markings, and site work. Pavement design shall match the adjacent medium-load pavement.

11. REQUIREMENT: 64,058 SY ADEQUATE: 52,558 SY SUBSTANDARD: 0

PROJECT: Construct a 11,500 square yard addition to the parking apron. (Current Mission)

REQUIREMENT: Adequate pavement area is required to provide space to taxi aircraft into and out of the designated parking spaces while maintaining standard wing tip clearances. Space is required to park eight C-130 aircraft.

CURRENT SITUATION: The current apron is not wide enough to provide normal "taxi-in" and "taxi-out" parking spaces with standard Air Force taxiing clearances. On "taxi-out" procedures the aircraft must execute an immediate, minimum radius turn to exit the parking spot. This places severe side loads on the main landing gear and struts. Available pavement cannot be efficiently used due to the narrow dimensions of the parking apron.

IMPACT IF NOT PROVIDED: Severe wear and tear will continue to reduce the life of aircraft tires and landing gear assemblies. Difficulty in maneuvering the aircraft will continue to exist because normal visual judgement of distance is not dependable from the angular aircraft position. Valuable pavement cannot be efficiently used.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

YOUNGSTOWN MUNICIPAL AIRPORT - AIR RESERVE STATION, OHIO

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| WIDEN AIRCRAFT PARKING APRON | ZQEL929001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 90 JAN 16 |
| (b) Percent Complete as of Jan 93 | | 85% |
| (c) Date 35% Designed | | 90 MAY 29 |
| (d) Date Design Complete | | 92 JAN 06 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | NO |
| (b) Where Design Was Most Recently Used - | | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | 94 |
| (b) All Other Design Costs | | 101 |
| (c) Total | | 195 |
| (d) Contract | | 94 |
| (e) In-house | | 101 |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| GREATER PITTSBURGH IAP, RESERVE STATION, PENNSYLVANIA | 0.97 |

5. FREQUENCY AND TYPE UTILIZATION

Facilities are used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 179-475 | Off Base Firing Range | 24 FP | 1,300 | 5/89 | 10/90 |
| 411-135 | Jet Fuel Storage Complex | 10,000 BL | 4,300 | 8/92 | 11/93 |

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION — 14 Oct 92 (Date)

Revalidated for unilateral construction.

9. LAND ACQUISITION REQUIRED — NONE (Number of Acres)

NONE

10. PROJECTS PLANNED IN NEXT FOUR YEARS

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| 219-944 | Base Civil Engineering Comples | 30,275 SF | 3,000 | 95 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

GREATER PITTSBURGH INTERNATIONAL AIRPORT - AIR RESERVE STATION, PITTSBURGH

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 345 | 0 | 4 | 341 | 1248 | 195 | 1053 |
| ACTUAL | 328 | 0 | 4 | 319 | 1242 | 188 | 1054 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 911th Airlift Group | 1248 | 1242 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130H | 8 | 8 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GREATER PITTSBURGH IAP, AIR RESERVE STATION, PENNSYLVANIA | OFF BASE FIRING RANGE |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 179-475 | JLSS919004 | 1,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| OFF BASE FIRING RANGE | | | | 332 |
| SMALL ARMS RANGE (M-16) | FP | 21 | 8,000 | ( 168) |
| M-60 RANGE | FP | 3 | 8,000 | ( 24) |
| TARGET STORAGE/RANGE FACILITIES BLDG | LS | | | ( 140) |
| SUPPORTING FACILITIES | | | | 840 |
| ELECTRICAL/COMMUNICATIONS SYSTEMS | LS | | | ( 10) |
| PAVEMENTS/SITE IMPROVEMENTS | LS | | | ( 795) |
| WATER, SANITARY SEWAGE/STORM DRAINS | LS | | | ( 35) |
| SUBTOTAL | | | | 1,172 |
| CONTINGENCY (5%) | | | | 59 |
| TOTAL CONTRACT COST | | | | 1,231 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 74 |
| TOTAL REQUEST | | | | 1,305 |
| TOTAL REQUEST (ROUNDED) | | | | 1,300 |

10. Description of Proposed Construction: Clear and grub 5 acre site on Army property, cut and fill existing grade, construct earthen berms, firing platforms, small arms range canopy, control booths, range baffles, bullet deflectors, facility building, access road and parking lot. Install electrical distribution and supply system, telephone system, perimeter fencing, water well and sanitary facilities and all other support.

11. REQUIREMENT: 24 FP ADEQUATE: 0 SUBSTANDARD: 24 FP

PROJECT: Construct both a small arms rifle range with 21 firing positions and a M-60 firing range with 3 positions for the 911 Airlift Group (AG) and supporting components (Current Mission).

REQUIREMENT: A dedicated facility is required to assure weapons training and proficiency for the 911 AG. The current annual training requirement of 1039 assigned personnel includes 745 aircrew mobility and support personnel, 66 security personnel, 10 range instructors, and 218 Prime BEEF members. Of these, approximately 1066 equivalent personnel require training on the M-16, 406 require 0.38 caliber training, 51 require 12-gauge shotgun training, and 39 require training on the M-60 machine gun annually.

CURRENT SITUATION: The 911 AG currently uses either the Air National Guard's 8 point firing range or the Allegheny County Police Academy's (ACPA) 35 point firing range which is located approximately 25 miles away. Previous utilization of the Greater Pittsburgh Gun Club's 15 point facility had to be discontinued since the facility failed to meet current USAF safety criteria. Available ranges in the area are not sufficient to meet small arms requirements without severely impacting other training. Based on available firing points at the ANG and other local ranges, the 911 AG would have to use every weekend of the year on and as-available

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

GREATER PITTSBURGH IAP, AIR RESERVE STATION, PENNSYLVANIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| OFF BASE FIRING RANGE | JLSS919004 |

basis to fulfill its training requirements.
IMPACT IF NOT PROVIDED: Peacetime and war readiness requirements cannot be supported. Continued use of limited (as-available) training facilities will negatively impact readiness and mission efectiveness of the 911 AG in providing confident and capably armed personnel. On a short range basis this unit will continue to utilizes limited facilities but will be unable to continue to meet USAFR training requirements in the long term without the use of a dedicated facility.
ADDITIONAL: Site location is leased land controlled by the Department of the Army.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

GREATER PITTSBURGH IAP, AIR RESERVE STATION, PENNSYLVANIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| OFF BASE FIRING RANGE | JLSS919004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 89 MAY 01 |
| (b) Percent Complete as of Jan 93 | 100% |
| (c) Date 35% Designed | 89 AUG 01 |
| (d) Date Design Complete | 90 OCT 01 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 210 |
| (b) All Other Design Costs | 67 |
| (c) Total | 277 |
| (d) Contract | 10 |
| (e) In-house | 267 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GREATER PITTSBURGH IAP, AIR RESERVE STATION, PENNSYLVANIA | JET FUEL STORAGE COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 411-135 | JLSS949004 | 4,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| JET FUEL STORAGE COMPLEX | BL | 10,000 | 230 | 2,300 |
| SUPPORTING FACILITIES | | | | 1,535 |
| UTILITIES | LS | | | ( 260) |
| DEMOLITION | LS | | | ( 800) |
| SITE PREPERATION/IMPROVEMENTS | LS | | | ( 80) |
| SPECIAL FOUNDATIONS | LS | | | ( 55) |
| FENCING/PAVEMENTS | LS | | | ( 225) |
| SPECIAL FIRE SUPPRESSION SYSTEMS | LS | | | ( 25) |
| SPILL PROTECTION SYSTEM | LS | | | ( 80) |
| EMERGENCY EYEWASH & SHOWERS | LS | | | ( 10) |
| SUBTOTAL | | | | 3,835 |
| CONTINGENCY (5%) | | | | 192 |
| TOTAL CONTRACT COST | | | | 4,027 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 242 |
| TOTAL REQUEST | | | | 4,269 |
| TOTAL REQUEST (ROUNDED) | | | | 4,300 |

10. Description of Proposed Construction: Construct two above ground JP-4 jet fuel storage tanks, each with 5,000 barrel capacity. Construction will include internal floating pans, diking, interior and exterior coating, two truck fill stands, receiving/unloading fuel stands, all associated stainless steel piping and equipment, pumphouse and control buildings, a POL operations building, and demolition of existing POL site.

11. REQUIREMENT: 10,000 BL ADEQUATE: 0 SUBSTANDARD: 8,485 BL
PROJECT: Construct a Jet Fuel Storage Complex. (Current Mission)
REQUIREMENT: Adequate, secure jet fuel storage, pumping, dispensing and distribution is required to support the C-130 aircraft mission at this base. The fuel storage area and piping should be located above ground for environmental reasons, and consolidated in one area so that minimal pumping is required to transport fuel to the refueling stations. It should also be in an area that provides reasonable security.
CURRENT SITUATION: The jet fuel delivery system built in 1953/55 is out of commission because of electrical problems and possible fuel leaks. Neither fuel stand is operational. It is not economically feasable to repair the existing jet fuel delivery system. An interim project to provide a temporary POL facility has been developed, but it doesn't have provisions for replacing the existing above ground storage tanks, and cannot meet the security requirements. This interim makeshift system cannot meet requirements for adequate fuel delivery on a long term basis.
IMPACT IF NOT PROVIDED: The base will be unable to deliver adequate supplies of jet fuel to aircraft severely affecting the mission.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

GREATER PITTSBURGH IAP, AIR RESERVE STATION, PENNSYLVANIA

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| JET FUEL STORAGE COMPLEX | JLSS949004 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | |
|---|---|
| (1) Status: | |
| (a) Date Design Started | 92 AUG 01 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 OCT 20 |
| (d) Date Design Complete | 93 NOV 30 |
| (2) Basis: | |
| (a) Standard or Definitive Design - | |
| (b) Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | ($000) |
| (a) Production of Plans and Specifications | 25 |
| (b) All Other Design Costs | 405 |
| (c) Total | 430 |
| (d) Contract | 400 |
| (e) In-house | 30 |
| (4) Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| KELLY AIR FORCE BASE, TEXAS (AFMC) | 0.88 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

Lackland Air Force Base
Brooks Air Force Base
1 Air National Guard Unit
Medina Army Training Post
Fort Sam Houston
4 Army Reserve Units

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 219-944 | RED HORSE Structural/ Utility Facility | 20,800 | 2,300 | 9/92 | 10/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION** — 4 Dec 92 (Date)

Approved for unilateral construction.

**9. LAND ACQUISITION REQUIRED** — NONE (Number of Acres)

NONE

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

11. PERSONNEL STRENGTH AS OF 31 MAR 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 4/15 | 0 | 0 | 4/15 | 379/219 | 10/10 | 369/209 |
| ACTUAL | 4/18 | 0 | 0 | 4/18 | 379/219 | 10/10 | 369/209 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| 307 RED HORSE CES | 219 | 219 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-5A | 15 | 16 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| KELLY AIR FORCE BASE, TX | RED HORSE STRUCTURAL/UTILITY FACILITY |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 219-944 | MBPB929201 | 2,300 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| RED HORSE STRUCTURAL/UTILITY FACILITY | SF | 20,800 | 86 | 1,789 |
| SUPPORTING FACILITIES | | | | 270 |
| UTILITIES | LS | | | ( 90) |
| PAVEMENTS | LS | | | ( 90) |
| SITE IMPROVEMENTS | LS | | | ( 90) |
| SUBTOTAL | | | | 2,059 |
| CONTINGENCY (5%) | | | | 103 |
| TOTAL CONTRACT COST | | | | 2,162 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 130 |
| TOTAL REQUEST | | | | 2,292 |
| TOTAL REQUEST (ROUNDED) | | | | 2,300 |

10. Description of Proposed Construction: All work necessary to construct a building to include, but not limited to, a steel frame, concrete/masonry walls and concrete slab. Areas include administration, and 11 general shop assignments. Add a dust collection system. This unit collects all manufactured dust in the carpentry shop area. Additional description of work to include built-up roof and spanish tile facia.

11. REQUIREMENT: 20,800 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a RED HORSE Structural/Utility Facility. (Current Mission)

REQUIREMENT: Provide a facility to house 11 civil engineering shops, benchstock and shop stock. Also to provide a holding area for job and work orders in progress.

CURRENT SITUATION: A World War 2 facility has been slightly modified to serve as the current RED HORSE structural/utility facility. The building is completely unsuitable for the requirements necessary. Most of the 11 civil engineering shops are required to perform their functions in areas that are entirely too small to accommodate not only themselves but their equipment. There is not enough space to maintain equipment that should be stored inside, this equipment is being maintained outside. A variety of hazards also provide constant concern to management. The close quarters that the shops must work in provides both personal, and auditory safety hazards. In addition, the wood trusses that hold up the roof are continously being evaluated. These trusses have been identified for possible failure.

IMPACT IF NOT PROVIDED: The worldwide mission of the 307th Civil Engineering Squadron RED HORSE will continue to be severly impaired. The current facility does not provide the space necessary to properly train

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TX | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| RED HORSE STRUCTURAL/UTILITY FACILITY | | MBPB929201 |

personnel during each Unit Training Assembly (UTA). This will continue to hamper individuals being fully qualified to perform their wartime missions. Truss failure lrading to roof collapse could result in property damage, injuriee or possible loss of life.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |
| 3. INSTALLATION AND LOCATION | | |
| KELLY AIR FORCE BASE, TX | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| RED HORSE STRUCTURAL/UTILITY FACILITY | | MBPB929201 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design -
(b) Where Design Was Most Recently Used -

(3) Design Allowance

(4) Construction Start 93 OCT

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| GENERAL MITCHELL INTERNATIONAL AIR PORT, WISCONSIN | 1.06 |

**5. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 16 MILE RADIUS**

2 Army National Guard Units
1 Army Reserve Unit
1 Navy Reserve Unit
1 Marine Corps Reserve Unit
1 Coast Guard Unit

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 800-232 | Add Fire Protection to Aircraft Hangars | 2 EA | 1,500 | 3/90 | 12/91 |
| 120-000 | Upgrade Base Fuels Complex | 20,000 GL | 1,800 | 8/92 | 5/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION**

22 Oct 92
*(Date)*

Approved for unilateral construction.

**9. LAND ACQUISITION REQUIRED**

NONE
*(Number of Acres)*

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| 211-159 | Corrosion Control Facility | 2,700 SF | 700 | 95 |
| 214-428 | Vehicle Operations & Maintenance Fac | 9,600 SF | 2,000 | 95 |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

GENERAL MITCHELL INTERNATIONAL AIRPORT - WISCONSIN

11. PERSONNEL STRENGTH AS OF 31 MAR 92

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 73/26 | 0/0 | 0/0 | 73/26 | 172/62 | 3/25 | 169/37 |
| ACTUAL | 81/29 | 0/0 | 0/0 | 81/29 | 172/62 | 3/25 | 169/37 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH AUTHORIZED | STRENGTH ACTUAL |
|---|---|---|
| 440 Maintenance Squadron | 172 | 172 |
| 440 Airlift Wing | 62 | 62 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-130 | 8 | 8 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GENERAL MITCHELL INTERNATIONAL AIRPORT, AIR RESERVE STATION, WISCONSIN | ADD FIRE PROTECTION TO AIRCRAFT HANGARS |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 880-232 | HTUX929001 | 1,500 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| ADD FIRE PROTECTION TO AIRCRAFT HANGARS | EA | 2 | 368,000 | 736 |
| UNDERWING AFFF SYSTEMS, BLDGS 217&302 | LS | | | ( 390) |
| WET PIPE SPRINKLER SYSTEM, BLDG 217 | LS | | | ( 189) |
| WET PIPE SPRINKLER SYSTEM, BLDG 302 | LS | | | ( 31) |
| TRENCH DRAIN/WASTE STORAGE LAGOON | LS | | | ( 126) |
| SUPPORTING FACILITIES | | | | 550 |
| ASBESTOS ABATEMENT | LS | | | ( 90) |
| ELECTRICAL | LS | | | ( 15) |
| PUMPS/DRIVERS/PIPING/PUMPHOUSE | LS | | | ( 420) |
| SANITARY SEWER/PAVEMENTS/LANDSCAPING | LS | | | ( 25) |
| SUBTOTAL | | | | 1,286 |
| CONTINGENCY (10%) | | | | 129 |
| TOTAL CONTRACT COST | | | | 1,415 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 85 |
| TOTAL REQUEST | | | | 1,500 |
| TOTAL REQUEST (ROUNDED) | | | | 1,500 |

10. Description of Proposed Construction: Install underwing aqueous film-forming foam (AFFF) fire suppression systems in aircraft maintenance areas of hangers, (buildings 217 and 302) and wet pipe sprinkler systems in the adjacent offices and shops. Includes infrared and ultraviolet fire sensors, alarms and signals to fire department, and an environmentally approved collection system.

11. REQUIREMENT: 2 EA ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Installation of AFFF and wet pipe fire suppression systems in two aircraft maintenance hangars. (Current Mission)

REQUIREMENT: Fire suppression systems are required to correct fire safety deficiencies, provide a safe workplace, and protect high-value aircraft.

CURRENT SITUATION: C-130 and KC-135 aircraft are at risk during hangar maintenance operations. Both hangars, which house a total of three C-130 aircraft, or one KC-135 and one C-130, lack adequate fire detection and protection. Portable fire extinguishers provide the only fire suppression capability.

IMPACT IF NOT PROVIDED: The potential for catastrophic loss of life, aircraft and equipment will continue to exist.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

GENERAL MITCHELL INTERNATIONAL AIRPORT, AIR RESERVE STATION, WISCONSIN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| ADD FIRE PROTECTION TO AIRCRAFT HANGARS | HTUX929001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) | Date Design Started | 90 MAR 28 |
| (b) | Percent Complete as of Jan 93 | 100% |
| (c) | Date 35% Designed | 91 JAN 16 |
| (d) | Date Design Complete | 91 DEC 15 |
| (2) Basis: | | |
| (a) | Standard or Definitive Design - | |
| (b) | Where Design Was Most Recently Used - | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) | Production of Plans and Specifications | 182 |
| (b) | All Other Design Costs | 13 |
| (c) | Total | 195 |
| (d) | Contract | 13 |
| (e) | In-house | 182 |
| (4) | Construction Start | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| GENERAL MITCHELL INTERNATIONAL AIRPORT AIR RESERVE STATION, WISCONSIN | UPGRADE BASE FUELS COMPLEX |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55356F | 120-000 | HTUX939001 | 1,800 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UPGRADE BASE FUELS COMPLEX | GL | 20,000 | 44 | 877 |
| WIDEN/RECONFIGURE SERVICE DRIVE | LS | | | ( 375) |
| REFUELER PARKING | LS | | | ( 140) |
| POL PIPING AND EQUIPMENT | LS | | | ( 186) |
| VEHICLE FUEL STORAGE TANKS | LS | | | ( 83) |
| VEHICLE FUELING STATION | LS | | | ( 93) |
| SUPPORTING FACILITIES | | | | 665 |
| UTILITIES/OIL WATER SEPARATORS | LS | | | ( 315) |
| DEMOLITION | LS | | | ( 50) |
| SITE IMPROVEMENTS/PRODUCT RECOVERY SYS | LS | | | ( 300) |
| SUBTOTAL | | | | 1,542 |
| CONTINGENCY (10%) | | | | 154 |
| TOTAL CONTRACT COST | | | | 1,696 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 102 |
| TOTAL REQUEST | | | | 1,798 |
| TOTAL REQUEST (ROUNDED) | | | | 1,800 |

10. Description of Proposed Construction: Replace underground POL piping with aboveground. Widen truck drive & refueler parking. Relocate off-loading headers, utilities, and fencing. Provide curbs, gutters, & catch basins to control drainage runoff. Install additional off-loading headers & piping. Demolish underground tanks and service island. Construct two above ground 10,000 gal fuel tanks with environmental controls.

11. REQUIREMENT: 20,000 GL ADEQUATE: 0 SUBSTANDARD: 20,000 GL
PROJECT: Upgrade existing old inefficient jet fuel and government service station fuel system to support the flying mission of the 440th Airlift Wing (AW) at General Mitchell IAP - Air Reserve Station. (Current Mission)
REQUIREMENT: An envionmentally safe and efficient base fuel complex is needed to support both ground vehicles and flying training activities on a daily basis.
CURRENT SITUATION: The existing complex was originally constructed in the mid 50s. The pumps and much of the underground piping was replaced in 1991. The existing pavement area is in poor condition with many broken and upheaved slabs. In the paved service areas, there is no runoff containment system for fuel spills. Runoff drains in several directions directly into nearby ditches and eventually into local streams without passing through oil/water separators. Access drives are narrow and difficult to negotiate with tractor-trailer rigs and today's larger refueler trucks. Traffic flow is congested. Deliveries can be accepted from only one fuel truck at a time. Refueler vehicle parking causes further congestion. The location of the vehicle fueling island conflicts with the receipt and issue of jet fuel.
IMPACT IF NOT PROVIDED: Without a complete upgrade to the base fuels complex, safe and efficient fueling operations are threatened. Fuel

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |
| 3. INSTALLATION AND LOCATION | | |
| GENERAL MITCHELL INTERNATIONAL AIRPORT AIR RESERVE STATION, WISCONSIN | | |
| 4. PROJECT TITLE | | 5. PROJECT NUMBER |
| UPGRADE BASE FUELS COMPLEX | | HTUX939001 |

spills will have an unacceptably high potential for causing environmental damage.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

GENERAL MITCHELL INTERNATIONAL AIRPORT AIR RESERVE STATION, WISCONSIN

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| UPGRADE BASE FUELS COMPLEX | HTUX939001 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

| | |
|---|---|
| (a) Date Design Started | 92 AUG 01 |
| (b) Percent Complete as of Jan 93 | 65% |
| (c) Date 35% Designed | 92 OCT 30 |
| (d) Date Design Complete | 93 MAY 01 |

(2) Basis:

| | |
|---|---|
| (a) Standard or Definitive Design - | NO |
| (b) Where Design Was Most Recently Used - | N/A |

(3) Total Cost (c) = (a) + (b) or (d) + (e):

| | ($000) |
|---|---|
| (a) Production of Plans and Specifications | 180 |
| (b) All Other Design Costs | |
| (c) Total | 180 |
| (d) Contract | 120 |
| (e) In-house | 60 |

(4) Construction Start 93 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

| 3. INSTALLATION AND LOCATION | 4. AREA CONSTR COST INDEX |
|---|---|
| AFR 51 | 1.05 |

**6. FREQUENCY AND TYPE UTILIZATION**

Facility is used daily.

**6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS**

**7. PROJECTS REQUESTED IN THIS PROGRAM**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | DESIGN START | DESIGN COMPLETE |
|---|---|---|---|---|---|
| 113-321 | Construct Aircraft Parking Apron | 55,000 SY | 8,000 | 7/92 | 7/93 |

**8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION**

Pending Joint State Reserve Forces Facility Board Meeting 14 Oct 92, or public announcement. — 1993 *(Date)*

**9. LAND ACQUISITION REQUIRED**

NONE — NONE *(Number of Acres)*

**10. PROJECTS PLANNED IN NEXT FOUR YEARS**

| CATEGORY CODE | PROJECT TITLE | SCOPE | COST ($000) | YEAR |
|---|---|---|---|---|
| NONE | | | | |

| 1. COMPONENT | FY 1994 GUARD AND RESERVE MILITARY CONSTRUCTION | 2. DATE |
|---|---|---|
| USAFR | | 1 SEP 92 |

3. INSTALLATION AND LOCATION

AFR 51

11. PERSONNEL STRENGTH AS OF

| | PERMANENT | | | | GUARD/RESERVE | | |
|---|---|---|---|---|---|---|---|
| | TOTAL | OFFICER | ENLISTED | CIVILIAN | TOTAL | OFFICER | ENLISTED |
| AUTHORIZED | 247 | 0 | 4 | 243 | 1091 | 150 | 941 |
| ACTUAL | 236 | 0 | 4 | 232 | 1107 | 160 | 947 |

12. RESERVE UNIT DATA

| UNIT DESIGNATION | STRENGTH | |
|---|---|---|
| | AUTHORIZED | ACTUAL |
| AFR 51 | 1091 | 1107 |

13. MAJOR EQUIPMENT AND AIRCRAFT

| TYPE | AUTHORIZED | ASSIGNED |
|---|---|---|
| C-141B | 8 | 8 |

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| CONUS CLASSIFIED | CONSTRUCT AIRCRAFT PARKING APRON |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 55396F | 113-321 | XPRF92900351 | 8,000 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| CONSTRUCT AIRCRAFT PARKING APRON | SY | 55,000 | 115 | 6,325 |
| SUPPORTING FACILITIES | | | | 550 |
| DEMOLITION | LS | | | ( 380) |
| UTILITIES | LS | | | ( 55) |
| ASPHALT PAVEMENT | LS | | | ( 115) |
| SUBTOTAL | | | | 6,875 |
| CONTINGENCY (10%) | | | | 688 |
| TOTAL CONTRACT COST | | | | 7,563 |
| SUPERVISION, INSPECTION AND OVERHEAD (6%) | | | | 454 |
| TOTAL REQUEST | | | | 8,017 |
| TOTAL REQUEST (ROUNDED) | | | | 8,000 |

10. Description of Proposed Construction: Construct parking apron to support increase in mission aircraft.

11. REQUIREMENT: 55,000 SY ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct appropriate portland concrete cement apron to support the addition of four C-141B type aircraft (New Mission).
REQUIREMENT: The Reserve airlift unit currently has eight C-141B aircraft assigned. Four additional aircraft are proposed. This project provides ramp space appropriately designed and located to support the increase.
CURRENT SITUATION: Available ramp space is insufficient to support four additional aircraft with required taxi and parking clearances.
IMPACT IF NOT PROVIDED: The Reserve airlift unit will be unable to support the Air Force directed increase in assigned aircraft.
ADDITIONAL: This project complies with the scope and design criteria of the Construction Manual 4270.0-M effective 1 Jan 87.

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

3. INSTALLATION AND LOCATION

CONUS CLASSIFIED

| 4. PROJECT TITLE | 5. PROJECT NUMBER |
|---|---|
| CONSTRUCT AIRCRAFT PARKING APRON | XPRF92900351 |

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

| | | |
|---|---|---|
| (1) Status: | | |
| (a) Date Design Started | | 92 JUL 02 |
| (b) Percent Complete as of Jan 93 | | 65% |
| (c) Date 35% Designed | | 92 OCT 15 |
| (d) Date Design Complete | | 93 JUL 30 |
| (2) Basis: | | |
| (a) Standard or Definitive Design - | | |
| (b) Where Design Was Most Recently Used - | | |
| (3) Total Cost (c) = (a) + (b) or (d) + (e): | | ($000) |
| (a) Production of Plans and Specifications | | |
| (b) All Other Design Costs | | |
| (c) Total | | |
| (d) Contract | | |
| (e) In-house | | |
| (4) Construction Start | | 93 DEC |

b. Equipment associated with this project will be provided from other appropriations: N/A

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS | PLANNING AND DESIGN (CURRENT MISSION) |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 5.53.96 | 010-211 | PAYZ940000 | 3,400 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| PLANNING AND DESIGN (CURR/NEW MISSION) | LS | | | 3,400 |
| SUBTOTAL | | | | 3,400 |
| TOTAL CONTRACT COST | | | | 3,400 |
| TOTAL REQUEST | | | | 3,400 |
| TOTAL REQUEST (ROUNDED) | | | | 3,400 |

10. Description of Proposed Construction:

11. REQUIREMENT: As required.

PROJECT: N/A

REQUIREMENT: Funds for architectural and engineering services and construction provide for the completed design of facilities and evaluation of designs in terms of technical adequacy and estimated costs. In addition, these funds are required to prepare site surveys, develop master plans, working drawings, specifications, project planning reports and design required for those construction projects included in the Air Force Reserve Military Construction Program. The age and continued deteroirationof the Air Force Reserve physical plant has generated numerous facility requirements requiring these architectural and engineering services for design. It is vital that the Air Force Reserve be funded at the requested level to ensure that operational readiness is not hampered or degraded due to inadequate facilities.

IMPACT IF NOT PROVIDED: Continued design on this Fiscal Year program, as well as future year MILCON programs, will not be possible

**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE RESERVE**
**JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1994**

APPROPRIATION: MILITARY CONSTRUCTION, AIR FORCE RESERVE

PROGRAM 341.020 UNSPECIFIED MILITARY CONSTRUCTION $3,904,000

PART I - PURPOSE AND SCOPE

The funds requested for unspecified military construction will finance new construction projects having cost estimates greater than $300,000 but not in excess of $400,000.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds requested for unspecified military construction will finance unforeseen projects generated during the year and are necessary to support mission requirements.

BOSTON PUBLIC LIBRARY
1378
3 9999 05018 539 4

| 1. COMPONENT | FY 1994 MILITARY CONSTRUCTION PROJECT DATA (computer generated) | 2. DATE |
|---|---|---|
| USAFR | | |

| 3. INSTALLATION AND LOCATION | 4. PROJECT TITLE |
|---|---|
| VARIOUS LOCATIONS | UNSPECIFIED MINOR CONSTRUCTION |

| 5. PROGRAM ELEMENT | 6. CATEGORY CODE | 7. PROJECT NUMBER | 8. PROJECT COST($000) |
|---|---|---|---|
| 5.53.96 | 010-211 | PAYZ940003 | 3,904 |

9. COST ESTIMATES

| ITEM | U/M | QUANTITY | UNIT COST | COST ($000) |
|---|---|---|---|---|
| UNSPECIFIED MINOR CONSTRUCTION | LS | | | 3,904 |
| SUBTOTAL | | | | 3,904 |
| TOTAL CONTRACT COST | | | | 3,904 |
| TOTAL REQUEST | | | | 3,904 |
| TOTAL REQUEST (ROUNDED) | | | | 3,904 |

10. Description of Proposed Construction: Various minor construction projects having costs of over $300,000 but less than $400,000.

11. REQUIREMENT: As required.

PROJECT: N/A

REQUIREMENT: This appropriation provides a lump sum amount for unspecified minor construction projects, not otherwise authorized by law, having a funded cost of $400,000 or less, including construction, alteration or conversion of temporary facilities, in accordance with Title 10, USC 2233 and 2233a. These projects are not now identified but are expected to arise during FY 94.

IMPACT IF NOT PROVIDED: No means to accomplish exigent projects between $300,000 and $400,000 will exist, severely degrading the ability of the Air Force Reserve to efficiently and effectively address facility modification, alteration and conversion requirements.